

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318384

Luminaire Tested: **GAN-SA0D-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69957 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

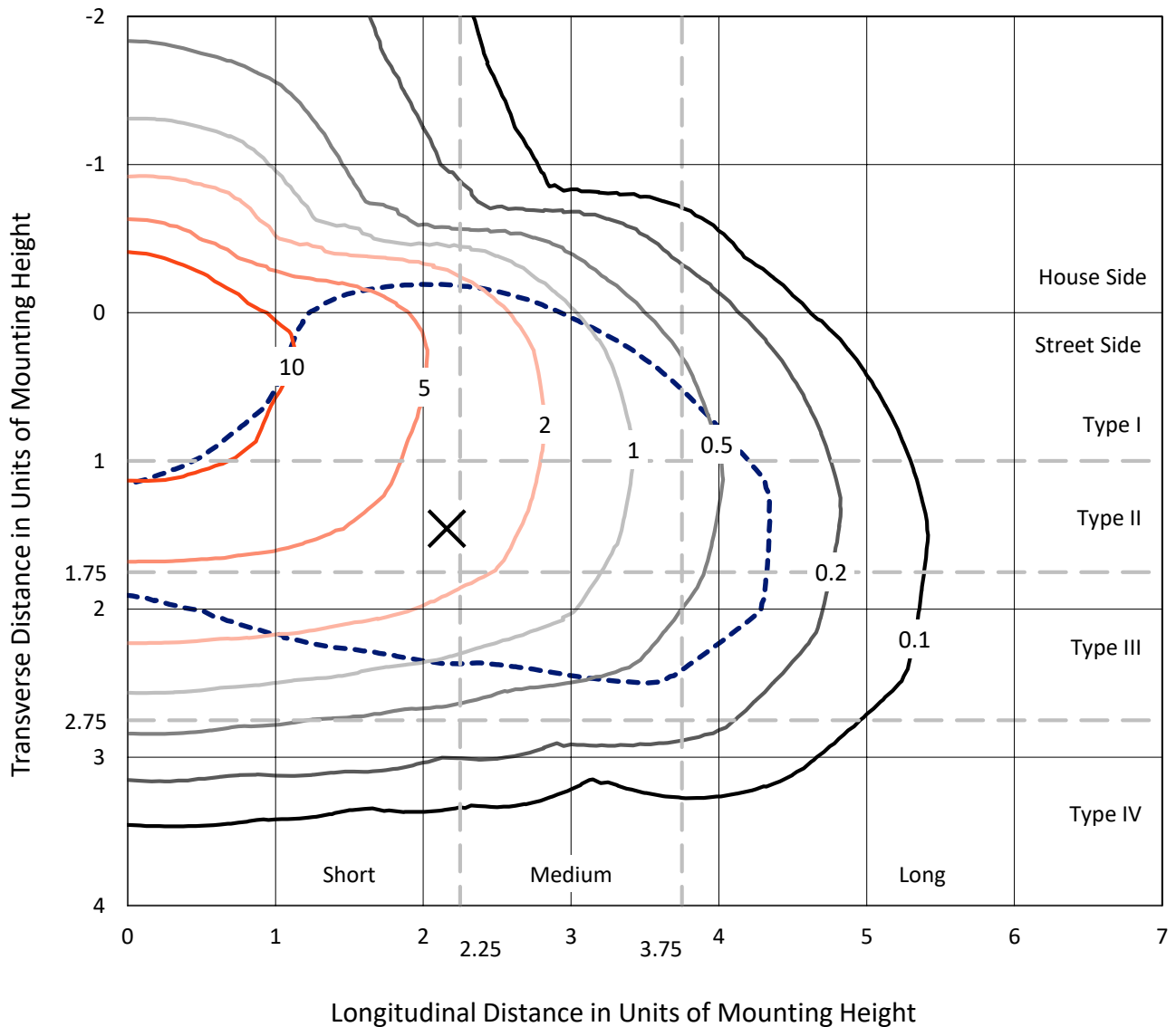
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

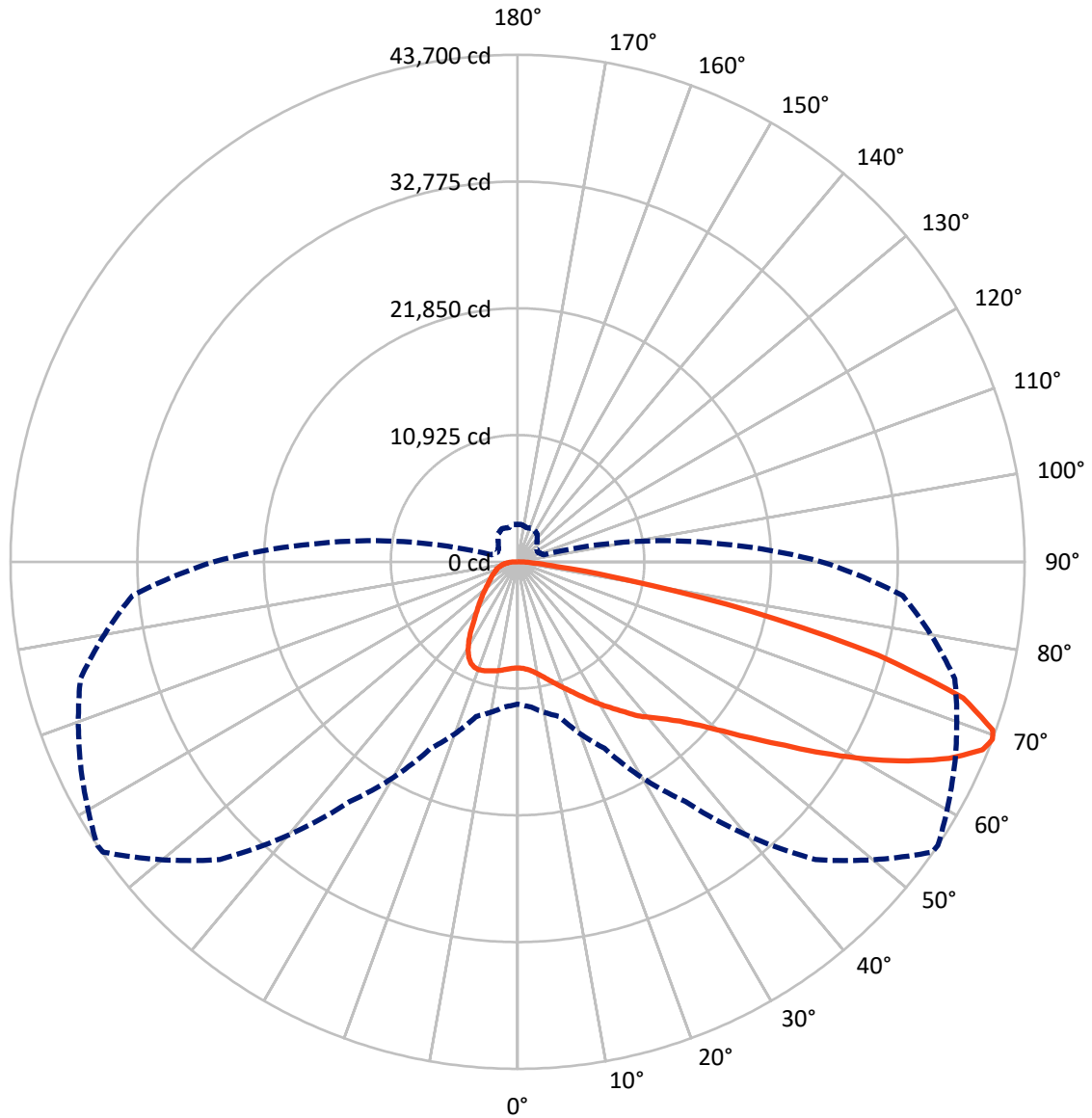
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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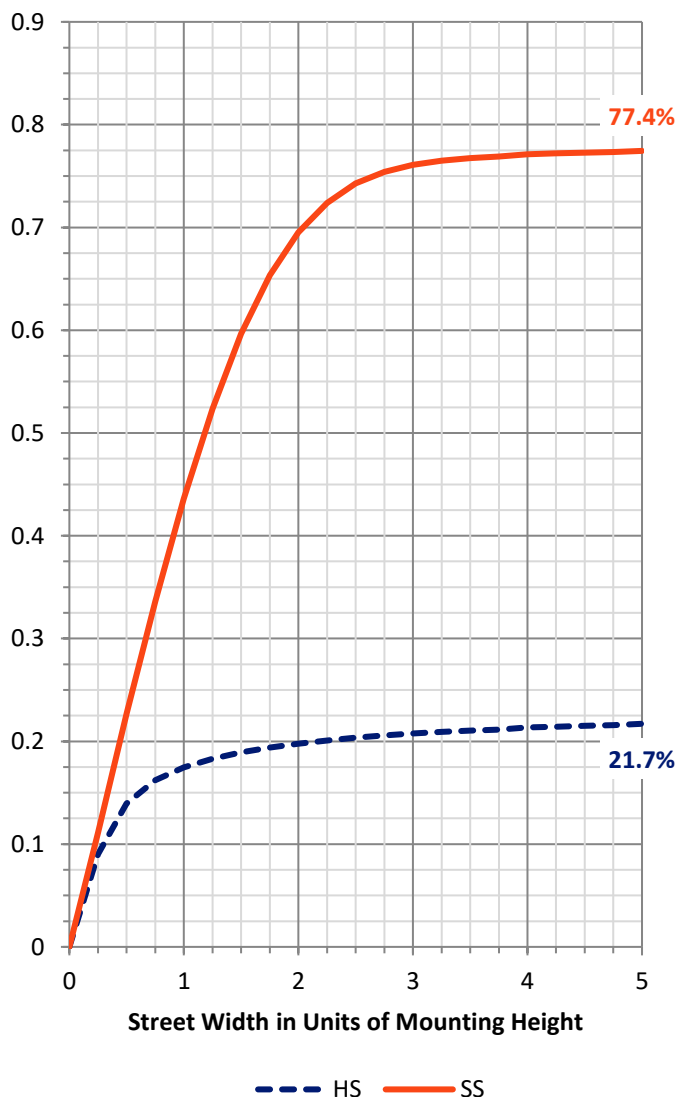
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15579.3	0.0	15579.3
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	54377.7	0.0	54377.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	69957.0	0.0	69957.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	898.3	1.3
10°-20°	2888.5	4.1
20°-30°	5042.1	7.2
30°-40°	7242.9	10.4
40°-50°	10023.7	14.3
50°-60°	14686.2	21.0
60°-70°	17905.2	25.6
70°-80°	9899.2	14.2
80°-90°	1371.0	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	69957.0	100.0
0°-180°	69957.0	100.0

**Coefficient of Utilization**

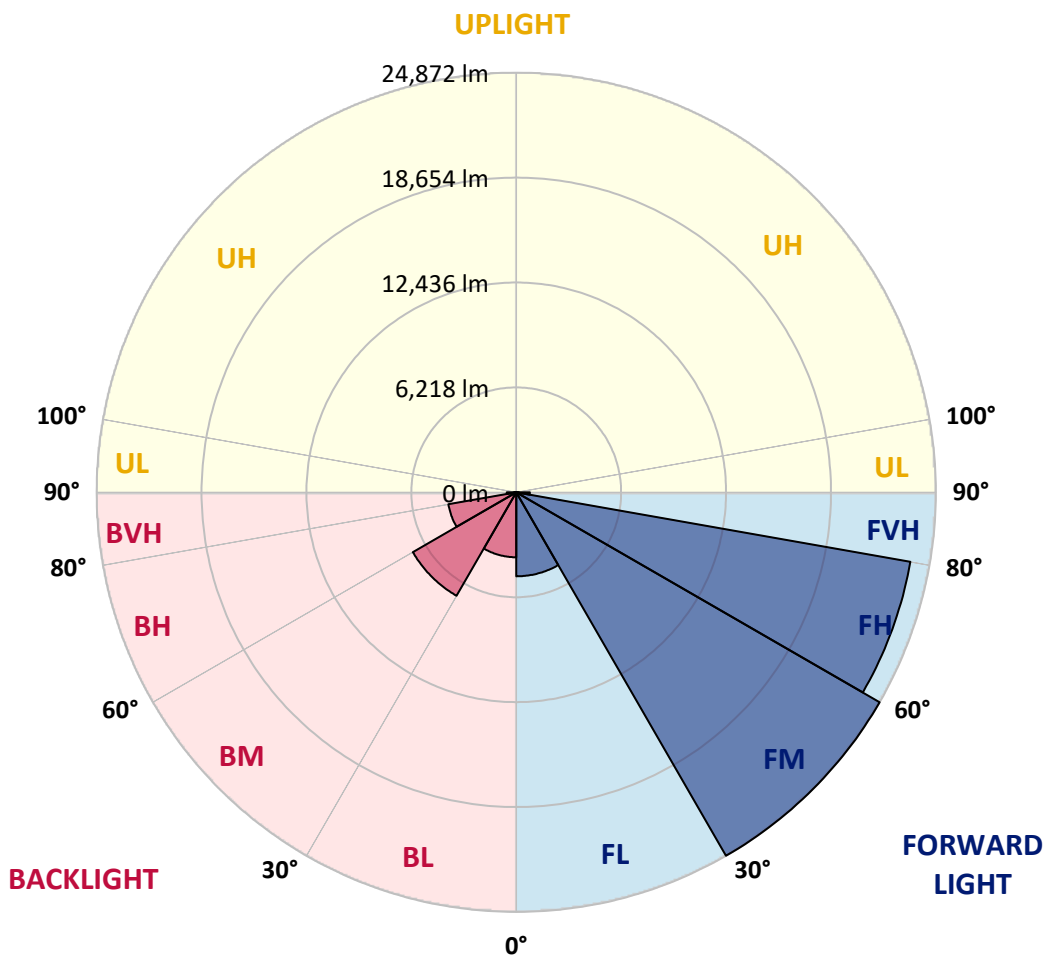


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4978.9	7.1			
FM (30°-60°)	24872.3	35.6			
FH (60°-80°)	23718.9	33.9			G5
FVH (80°-90°)	807.6	1.2			G5
BL (0°-30°)	3850.0	5.5	B4/5000		
BM (30°-60°)	7080.4	10.1	B4/8500		
BH (60°-80°)	4085.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	563.5	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8
2.5°	9203.7	9213.3	9206.1	9225.4	9203.7	9218.1	9206.1	9206.1	9198.8	9177.2	9153.1
5°	9348.3	9367.5	9355.5	9374.8	9348.3	9353.1	9331.4	9331.4	9309.7	9263.9	9215.7
7.5°	9574.8	9596.5	9586.8	9606.1	9570.0	9570.0	9541.1	9538.6	9495.3	9420.6	9365.1
10°	9844.7	9873.6	9864.0	9892.9	9864.0	9873.6	9844.7	9844.7	9786.9	9680.8	9610.9
12.5°	10237.5	10273.7	10247.2	10244.8	10232.7	10252.0	10227.9	10223.1	10170.1	10025.5	9929.1
15°	10762.9	10801.5	10746.0	10741.2	10673.7	10666.5	10666.5	10659.3	10625.5	10452.0	10293.0
17.5°	11367.8	11379.9	11331.7	11254.5	11167.8	11112.4	11105.1	11124.4	11124.4	10922.0	10668.9
20°	11960.7	11982.4	11943.8	11857.0	11746.2	11664.2	11606.4	11645.0	11642.6	11401.6	11042.5
22.5°	12606.5	12657.1	12599.3	12488.4	12358.3	12266.7	12165.5	12199.3	12201.7	11905.2	11408.8
25°	13442.8	13397.0	13360.9	13204.2	13018.6	12924.7	12830.7	12864.4	12854.8	12447.5	11787.1
27.5°	14182.7	14192.3	14144.1	13977.8	13763.3	13556.1	13551.2	13572.9	13536.8	13011.4	12143.8
30°	15043.0	15047.8	14980.4	14830.9	14597.2	14329.7	14267.0	14303.2	14226.0	13546.4	12519.8
32.5°	15898.6	15922.7	15847.9	15667.2	15479.2	15153.9	15028.6	15052.7	14859.9	14093.5	12907.8
35°	16648.1	16681.8	16657.7	16537.2	16332.3	16052.8	15903.4	15888.9	15650.3	14763.5	13421.1
37.5°	17412.0	17443.3	17416.8	17315.6	17233.7	16937.2	16857.7	16857.7	16443.2	15447.9	14074.2
40°	18197.7	18245.9	18214.5	18074.8	18004.9	17869.9	17679.5	17633.7	17185.5	16269.7	15139.4
42.5°	18927.9	18990.5	19115.9	19033.9	18891.7	18911.0	18527.8	18503.7	18176.0	17484.3	16476.9
45°	19964.2	20055.7	20267.8	20205.2	20176.2	20070.2	19614.7	19593.0	19467.7	19118.3	18137.4
47.5°	21094.4	21219.8	21602.9	21615.0	21925.9	21725.9	21106.5	21031.8	21060.7	21075.2	20164.2
50°	22135.5	22272.9	22901.9	23198.3	23931.0	23974.4	22983.9	22916.4	23029.6	23362.2	22526.0
52.5°	22967.0	23140.5	23926.2	24841.9	26097.5	26454.2	25295.0	25244.4	25328.8	25902.3	25196.2
55°	23576.7	23764.7	24620.2	26287.9	28293.0	28922.0	27955.6	27907.4	27960.4	28690.7	28100.2
57.5°	23718.9	23764.7	25005.8	27261.5	30146.3	31657.3	31211.5	31115.1	30854.8	31491.0	31305.5
60°	23051.3	23234.5	24687.7	27603.8	31580.2	34354.1	34614.4	34493.9	33763.6	34284.2	34134.8
62.5°	21696.9	22024.7	23499.6	27083.2	32141.7	36556.8	37952.2	37807.6	36549.6	36887.0	36168.8
65°	19484.6	19624.4	21174.0	25287.8	31428.4	37966.6	40928.5	40856.2	39272.8	38745.0	36544.7
67.5°	15527.4	15790.1	17105.9	21535.5	28509.9	37800.3	43230.0	43222.8	41051.4	39434.3	35212.0
69°	12266.7	12539.1	13792.2	17739.8	25227.5	36279.6	43615.6	43699.9	41552.7	39015.0	33308.2
70°	9779.6	10095.4	10955.7	14941.8	22313.9	34274.6	43295.1	43446.9	41456.3	38323.3	31551.3
72.5°	4162.0	4417.5	5029.6	7702.3	13599.4	25593.8	39586.1	40159.7	39222.2	35074.7	26075.8
75°	1817.1	1896.6	2173.8	3140.2	6037.0	13929.6	31011.5	32071.8	33537.1	29647.4	19424.3
77.5°	1330.3	1364.0	1515.9	1843.6	2708.8	5261.0	19942.5	20559.4	24186.4	21574.0	11914.9
80°	1029.1	1053.2	1171.2	1354.4	1768.9	2128.0	9095.2	9625.4	13599.4	11081.0	4962.1
82.5°	819.4	836.3	918.2	997.7	1221.9	1289.3	3019.7	3349.9	5020.0	3060.7	1313.4
85°	761.5	780.8	809.7	727.8	783.2	756.7	1306.2	1366.5	1515.9	1202.6	549.5
87.5°	344.6	407.3	802.5	566.3	416.9	332.6	535.0	559.1	629.0	631.4	243.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8	9145.8
2.5°	9167.5	9160.3	9172.3	9143.4	9179.6	9177.2	9165.1	9169.9	9194.0	9191.6	9194.0
5°	9222.9	9218.1	9232.6	9210.9	9254.3	9268.7	9271.1	9292.8	9319.3	9326.6	9326.6
7.5°	9362.7	9362.7	9370.0	9341.0	9370.0	9367.5	9355.5	9377.2	9403.7	9406.1	9403.7
10°	9603.7	9606.1	9594.1	9519.4	9495.3	9430.2	9370.0	9372.4	9406.1	9432.6	9439.8
12.5°	9907.4	9897.7	9844.7	9707.3	9606.1	9473.6	9410.9	9408.5	9442.3	9463.9	9471.2
15°	10254.4	10227.9	10090.5	9866.4	9688.1	9557.9	9456.7	9432.6	9413.3	9389.2	9391.6
17.5°	10582.2	10521.9	10293.0	9982.1	9794.1	9620.6	9425.4	9268.7	9160.3	9097.6	9078.3
20°	10914.7	10796.7	10466.5	10090.5	9851.9	9536.2	9160.3	8842.2	8644.6	8553.0	8536.1
22.5°	11218.4	11028.0	10628.0	10203.8	9806.2	9251.9	8661.4	8198.7	7924.0	7801.1	7810.7
25°	11514.8	11249.7	10796.7	10283.3	9574.8	8750.6	7967.4	7398.6	7080.5	6943.1	6938.3
27.5°	11775.1	11473.9	10979.8	10218.3	9143.4	8037.2	7145.6	6591.3	6326.2	6208.1	6188.8
30°	12073.9	11755.8	11223.2	9970.0	8512.0	7213.0	6343.0	5952.6	5764.6	5646.6	5624.9
32.5°	12437.8	12139.0	11423.2	9519.4	7704.7	6352.7	5716.4	5444.1	5273.0	5140.5	5116.4
35°	12968.0	12645.1	11473.9	8873.5	6817.8	5673.1	5256.1	4976.6	4745.2	4574.1	4557.2
37.5°	13633.2	13278.9	11358.2	8037.2	5957.4	5232.0	4873.0	4528.3	4227.1	3986.1	3947.5
40°	14592.4	14057.3	11037.6	7073.3	5323.6	4892.2	4499.4	4106.6	3733.0	3451.1	3395.6
42.5°	15744.3	14970.7	10546.0	6114.1	4858.5	4547.6	4128.3	3641.5	3284.8	3084.8	3055.8
45°	17209.6	15920.2	9864.0	5275.4	4400.6	4203.0	3728.2	3280.0	3058.2	2911.2	2887.1
47.5°	18882.1	16985.4	9148.2	4593.4	4012.6	3880.0	3407.7	3118.5	2942.6	2826.9	2805.2
50°	20937.8	18188.0	8389.1	4034.3	3622.2	3492.0	3255.9	3029.3	2889.6	2800.4	2778.7
52.5°	23256.2	19544.8	7842.0	3593.3	3299.2	3205.3	3176.3	2981.1	2867.9	2800.4	2778.7
55°	25752.9	20925.7	7251.6	3222.1	3019.7	3046.2	3123.3	2985.9	2908.8	2826.9	2795.6
57.5°	28252.0	22352.4	6593.7	2908.8	2798.0	2928.1	3087.2	2995.6	2930.5	2851.0	2822.1
60°	30228.2	23256.2	5574.3	2646.1	2622.0	2798.0	3000.4	2923.3	2838.9	2841.4	2836.5
62.5°	31151.2	23208.0	4448.8	2412.4	2446.1	2622.0	2860.6	2810.0	2740.1	2834.1	2841.4
65°	30633.1	22051.2	3463.1	2200.3	2258.1	2438.9	2716.0	2754.6	2778.7	2959.4	2983.5
67.5°	28459.3	19800.3	2682.3	2014.7	2087.0	2313.6	2730.5	3000.4	3031.7	3222.1	3219.7
69°	26210.8	17689.2	2330.4	1918.3	2002.7	2344.9	2918.5	3157.1	3039.0	3241.4	3212.5
70°	24326.2	16019.1	2142.5	1853.3	1964.1	2400.3	3043.8	3154.6	3002.8	3176.3	3128.1
72.5°	18735.1	11524.5	1817.1	1732.8	1834.0	2296.7	3079.9	3084.8	2918.5	2952.2	2870.3
75°	12849.9	7282.9	1585.8	1568.9	1636.4	2070.2	2964.3	2947.4	2699.2	2651.0	2583.5
77.5°	7085.3	3699.3	1347.2	1412.2	1458.0	1834.0	2694.3	2670.2	2465.4	2364.2	2340.1
80°	2732.9	1619.5	1137.5	1255.6	1284.5	1588.2	2361.8	2340.1	2169.0	2038.8	2002.7
82.5°	1031.5	848.3	939.9	1086.9	1077.3	1311.0	2000.3	1988.2	1821.9	1631.5	1573.7
85°	477.2	508.5	744.7	896.5	826.6	971.2	1600.2	1621.9	1419.5	1192.9	1192.9
87.5°	202.4	284.4	527.8	677.2	556.7	655.5	1173.7	1120.6	1029.1	713.4	670.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)