

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: P317402

Luminaire Tested: **GAN-SA8B-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8B-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43452 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

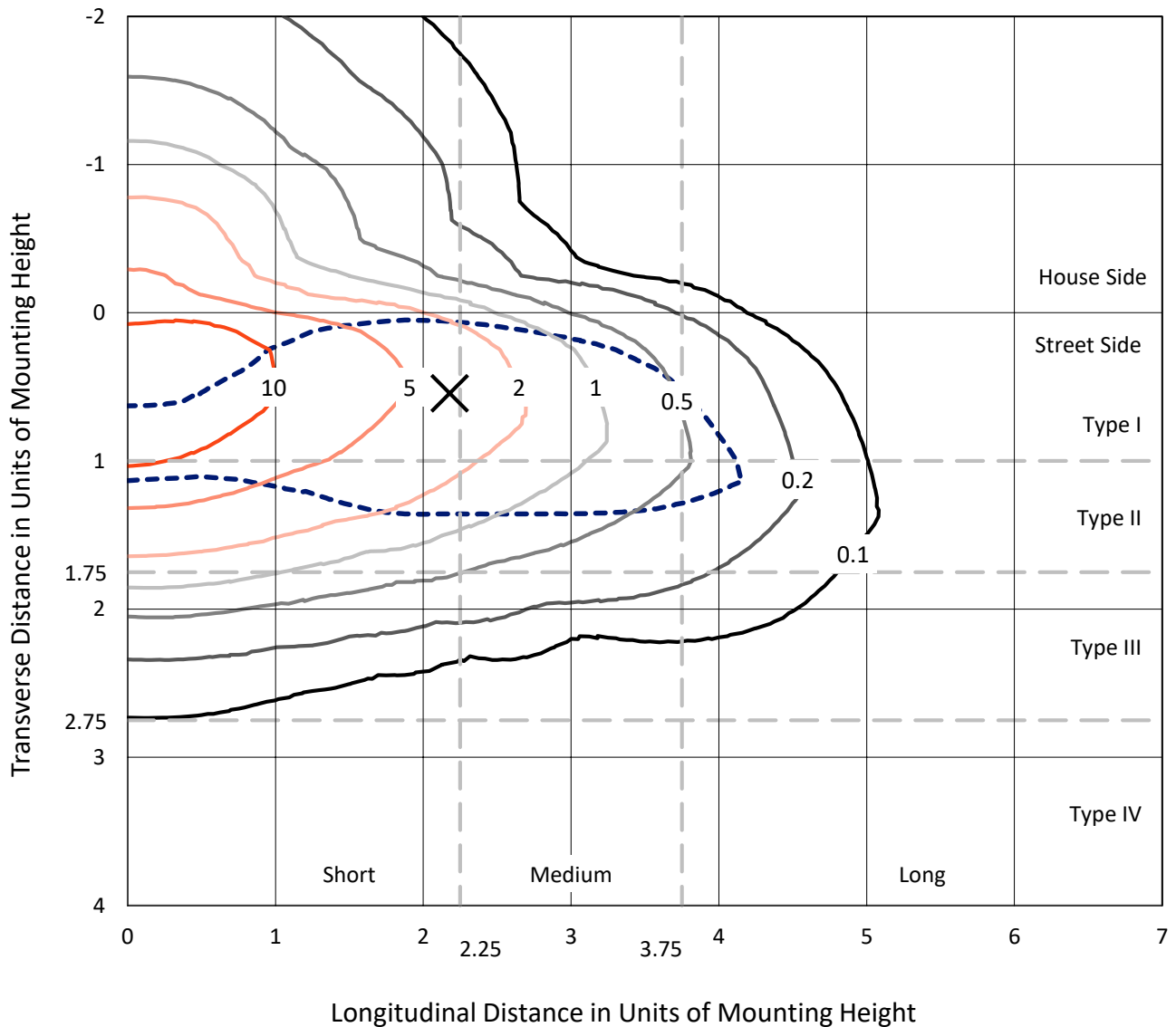
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

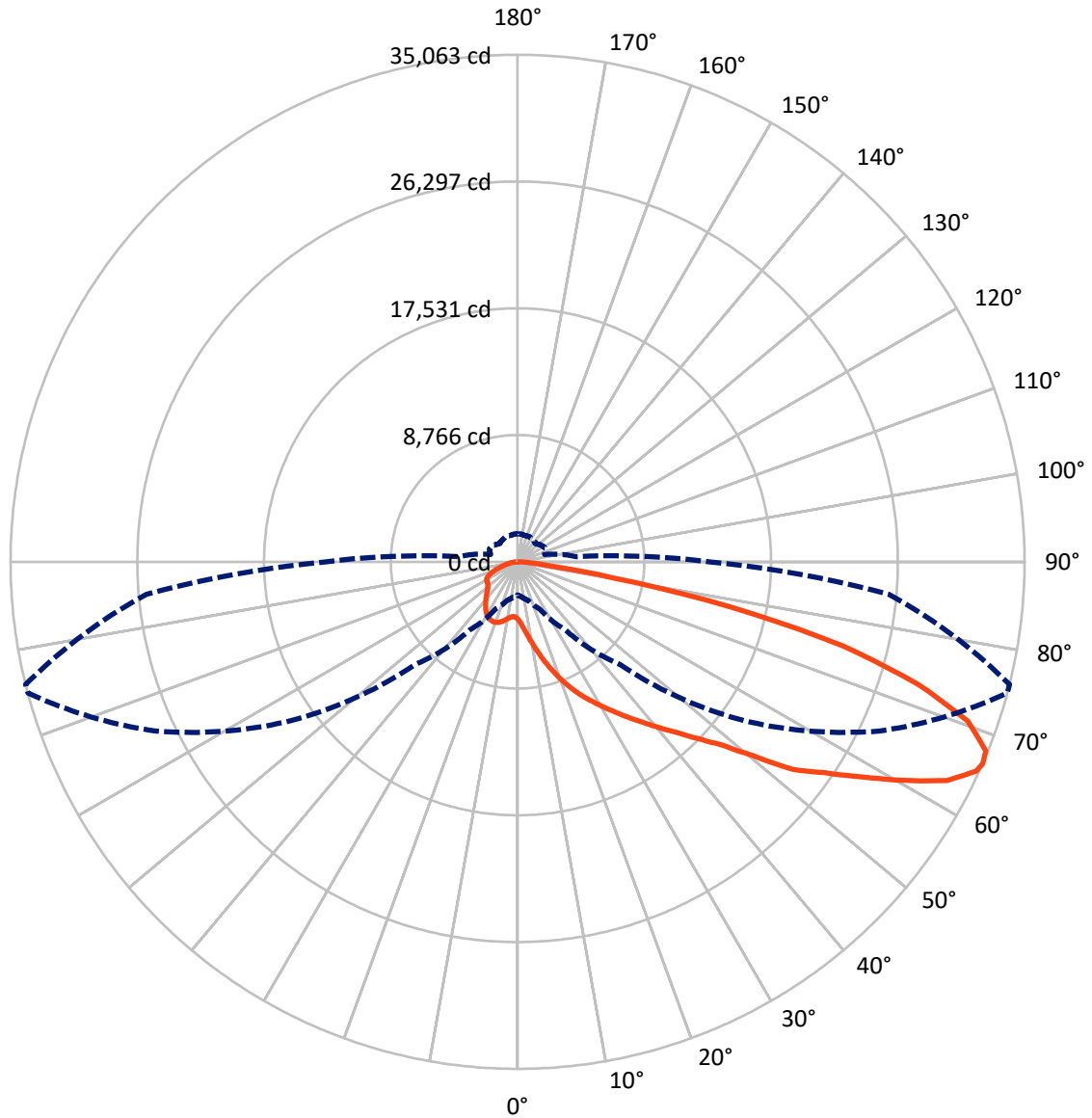
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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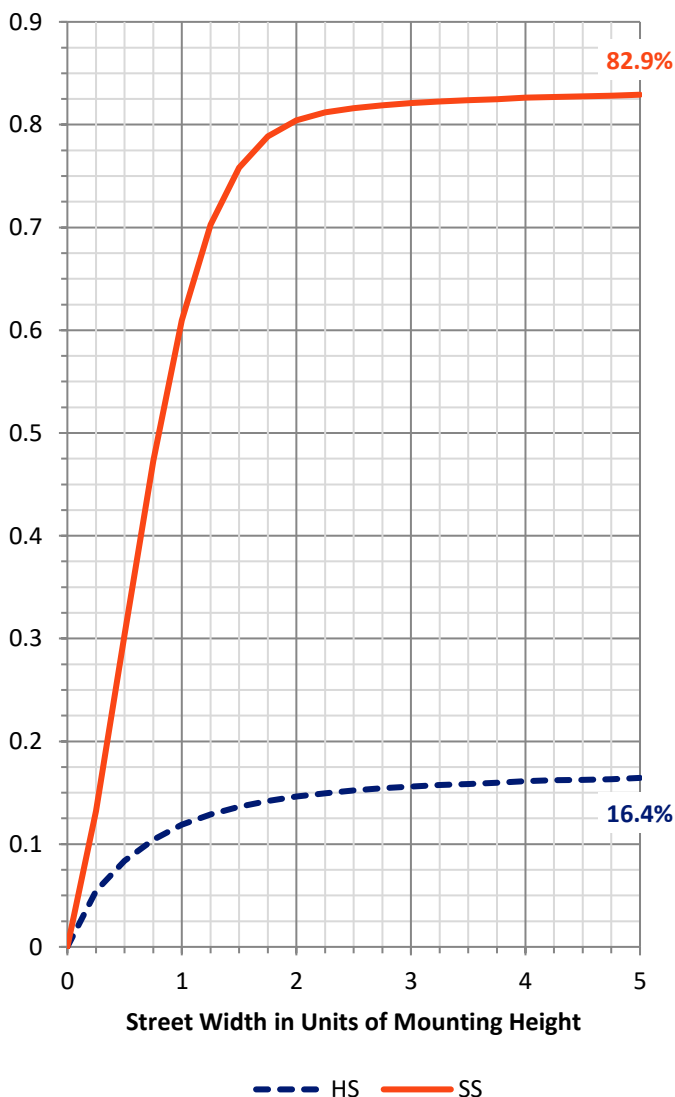
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7311.5	0.0	7311.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	36140.5	0.0	36140.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	43452.0	0.0	43452.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.9	1.1
10°-20°	1894.9	4.4
20°-30°	3682.3	8.5
30°-40°	6010.3	13.8
40°-50°	8211.5	18.9
50°-60°	9564.8	22.0
60°-70°	8575.0	19.7
70°-80°	4333.5	10.0
80°-90°	699.8	1.6
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°	43452.0	100.0
0°-180°	43452.0	100.0

**Coefficient of Utilization**

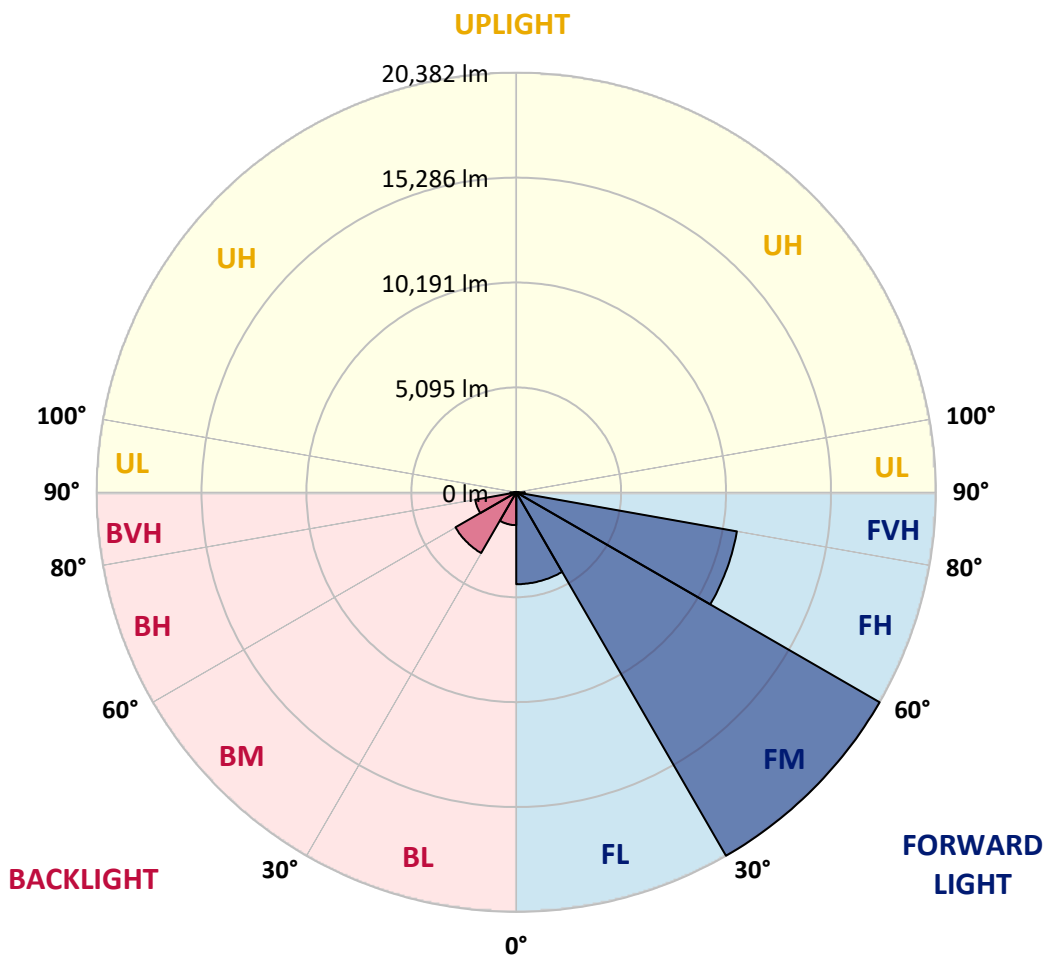


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4462.4	10.3			
FM (30°-60°)	20382.0	46.9			
FH (60°-80°)	10882.8	25.0			G4/12000
FVH (80°-90°)	413.3	1.0			G3/500
BL (0°-30°)	1594.7	3.7	B3/2500		
BM (30°-60°)	3404.7	7.8	B3/5000		
BH (60°-80°)	2025.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	286.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1
2.5°	5267.8	5188.1	5180.7	5064.2	5037.6	4814.9	4651.1	4480.0	4285.3	4247.0	4093.5
5°	6766.5	6759.1	6657.3	6467.0	6318.1	5937.5	5561.3	5163.0	4726.4	4655.6	4310.4
7.5°	8114.8	8103.0	8024.8	7819.8	7604.4	7136.8	6599.8	5989.1	5281.0	5176.3	4603.9
10°	9138.5	9134.1	9107.6	8957.1	8774.2	8325.7	7732.7	6899.3	5925.7	5782.6	4971.2
12.5°	9929.2	9938.1	9955.8	9902.7	9815.6	9433.6	8825.8	7864.0	6613.1	6471.5	5379.9
15°	10464.7	10491.3	10582.7	10657.9	10703.7	10469.1	9880.5	8850.9	7383.1	7213.5	5832.7
17.5°	10734.7	10764.2	10922.0	11149.2	11358.6	11335.0	10867.4	9792.0	8122.2	7958.4	6319.5
20°	10967.7	10989.9	11166.9	11439.8	11810.0	11973.8	11711.2	10697.8	8932.0	8737.3	6835.8
22.5°	11643.3	11671.4	11724.5	11879.4	12206.8	12507.8	12380.9	11554.8	9674.0	9492.6	7325.6
25°	12947.4	12981.3	12866.2	12735.0	12796.9	13006.4	13030.0	12336.7	10426.3	10221.3	7852.2
27.5°	14518.4	14567.1	14370.9	14033.1	13738.1	13656.9	13628.9	12976.9	11144.7	10907.2	8372.9
30°	16057.0	16141.1	15885.9	15447.7	14906.4	14525.8	14244.0	13603.8	11852.8	11625.6	8864.2
32.5°	17560.2	17526.2	17156.0	16728.2	16093.9	15617.4	14935.9	14276.5	12649.4	12388.3	9352.4
35°	18589.8	18601.6	18257.9	17750.5	17145.6	16779.8	15862.3	15002.3	13462.2	13221.7	9907.1
37.5°	19466.1	19411.5	19022.0	18548.5	18027.8	17871.4	16946.5	15801.8	14342.9	14080.3	10497.2
40°	19758.1	19694.7	19439.5	19098.7	18681.3	18668.0	18142.8	16707.5	15338.6	15079.0	11162.4
42.5°	19581.1	19500.0	19395.2	19302.3	19174.0	19233.0	19266.9	17769.6	16433.1	16142.5	11932.5
45°	18927.6	18805.2	18878.9	19081.0	19359.8	19693.2	20281.8	18945.3	17659.0	17415.6	12836.7
47.5°	17923.0	17812.4	18042.5	18474.8	19233.0	20076.8	21242.1	20243.5	19122.3	18880.4	14124.5
50°	16509.9	16542.3	16871.3	17657.5	18803.7	20253.8	22425.2	21962.0	21249.5	21023.8	15881.4
52.5°	14190.9	14196.8	15123.2	16414.0	18042.5	20162.3	23081.6	24158.5	24154.1	23881.2	17554.3
55°	12037.2	12168.5	12901.6	14617.2	16809.3	19796.5	23540.4	25226.5	26061.4	25741.3	19113.5
57.5°	9933.6	10010.4	10705.1	12428.1	15049.5	18821.4	24011.0	26508.4	28259.4	28057.3	21051.8
60°	7541.0	7659.0	8377.4	9969.0	12798.4	17091.1	24055.2	27846.4	30886.6	30683.1	23215.9
62.5°	4894.5	5098.1	5770.8	7262.2	10075.3	14602.5	23028.5	28721.1	33376.7	33304.4	25136.5
65°	2813.1	2966.5	3434.1	4584.8	6950.9	11478.1	20587.2	28384.8	34909.4	34868.1	25854.9
66°	2298.3	2394.2	2752.6	3583.1	5735.4	10079.7	19168.1	27675.2	35061.3	35062.8	25772.3
67.5°	1838.0	1880.8	2041.6	2565.3	4232.2	7989.4	16632.3	26110.1	34872.5	34924.1	25239.8
70°	1520.9	1543.0	1593.2	1720.0	2310.1	4817.8	11805.6	22043.1	32976.9	33016.8	23161.3
72.5°	1364.5	1377.8	1397.0	1414.7	1630.0	2692.1	7210.5	17633.9	28912.9	28964.5	19994.2
75°	1236.2	1243.5	1240.6	1242.1	1367.5	1715.6	3726.2	13165.7	23378.1	23274.9	15316.5
77.5°	1085.7	1093.1	1078.3	1081.3	1209.6	1318.8	1854.3	9216.7	15776.7	15048.0	8629.6
80°	917.5	923.4	917.5	927.9	1053.3	995.7	1078.3	5185.1	6976.0	6598.3	3068.3
82.5°	693.3	718.4	736.1	777.4	867.4	708.1	721.3	2019.5	2124.2	2022.4	941.1
85°	303.9	370.3	554.7	594.5	652.0	424.8	473.5	823.1	864.4	837.9	342.2
87.5°	79.7	87.0	274.4	345.2	361.4	191.8	246.3	374.7	395.3	374.7	113.6
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°	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1	3968.1
2.5°	4012.4	3940.1	3810.3	3695.2	3608.2	3549.2	3490.2	3460.7	3443.0	3425.3	3428.2
5°	4140.7	3994.7	3772.0	3614.1	3525.6	3469.5	3440.0	3428.2	3420.9	3403.2	3403.2
7.5°	4334.0	4127.5	3820.6	3658.4	3589.0	3546.3	3528.6	3522.7	3513.8	3493.2	3496.1
10°	4577.4	4288.3	3922.4	3764.6	3701.1	3653.9	3628.9	3620.0	3603.8	3580.2	3583.1
12.5°	4863.6	4487.4	4056.7	3891.4	3814.7	3751.3	3710.0	3684.9	3656.9	3625.9	3627.4
15°	5176.3	4704.2	4201.2	4005.0	3900.3	3811.8	3745.4	3702.6	3658.4	3620.0	3618.5
17.5°	5493.5	4913.7	4311.9	4067.0	3925.4	3808.8	3718.8	3652.5	3597.9	3550.7	3546.3
20°	5835.7	5102.5	4373.8	4061.1	3878.2	3739.5	3620.0	3537.4	3476.9	3429.7	3422.3
22.5°	6183.8	5279.6	4384.1	4000.6	3773.4	3603.8	3478.4	3386.9	3325.0	3276.3	3258.6
25°	6502.5	5416.7	4341.4	3884.1	3627.4	3444.5	3322.0	3229.1	3178.9	3121.4	3103.7
27.5°	6793.1	5512.6	4255.8	3735.1	3463.6	3283.7	3168.6	3089.0	3034.4	2990.1	2975.4
30°	7054.2	5564.3	4115.7	3558.1	3295.5	3131.7	3034.4	2979.8	2932.6	2876.5	2866.2
32.5°	7302.0	5564.3	3935.7	3364.8	3128.8	2997.5	2940.0	2906.0	2852.9	2798.4	2783.6
35°	7549.8	5530.3	3723.3	3162.7	2975.4	2901.6	2898.7	2858.8	2777.7	2703.9	2684.8
37.5°	7810.9	5461.0	3484.3	2973.9	2850.0	2858.8	2883.9	2795.4	2680.3	2575.6	2547.6
40°	8105.9	5365.1	3236.5	2810.2	2745.3	2839.7	2844.1	2703.9	2479.7	2383.8	2358.8
42.5°	8452.6	5269.2	3006.4	2665.6	2662.6	2782.1	2768.9	2506.3	2372.0	2323.4	2310.1
45°	8908.4	5214.6	2788.0	2528.4	2597.7	2689.2	2640.5	2397.1	2341.1	2313.0	2301.2
47.5°	9626.8	5242.7	2587.4	2419.2	2532.8	2596.3	2401.5	2352.9	2313.0	2279.1	2267.3
50°	10526.7	5226.4	2425.1	2344.0	2459.1	2498.9	2293.9	2295.3	2274.7	2236.3	2218.6
52.5°	11203.7	5099.6	2320.4	2301.2	2394.2	2326.3	2226.0	2239.3	2228.9	2172.9	2153.7
55°	11857.2	4990.4	2267.3	2285.0	2347.0	2110.9	2146.3	2178.8	2168.5	2113.9	2105.0
57.5°	12670.0	4969.8	2234.8	2289.4	2307.1	2003.3	2069.6	2112.4	2105.0	2081.4	2077.0
60°	13665.8	4975.7	2205.3	2296.8	2262.9	1923.6	1997.4	2051.9	2056.4	2051.9	2049.0
62.5°	14213.0	4814.9	2131.6	2276.2	2184.7	1854.3	1922.1	2001.8	2003.3	2012.1	2010.6
65°	13748.4	4334.0	1994.4	2203.9	2053.4	1796.7	1857.2	1944.2	1922.1	1961.9	1961.9
66°	13297.0	4056.7	1926.5	2156.7	1997.4	1774.6	1836.6	1914.7	1886.7	1941.3	1941.3
67.5°	12375.0	3589.0	1804.1	2056.4	1917.7	1743.6	1813.0	1866.1	1827.7	1908.8	1902.9
70°	10690.4	2776.2	1557.8	1829.2	1786.4	1697.9	1780.5	1768.7	1712.6	1836.6	1813.0
72.5°	9013.2	2109.5	1250.9	1531.2	1587.3	1640.4	1734.8	1644.8	1574.0	1661.0	1609.4
75°	6993.7	1585.8	988.3	1190.4	1340.9	1550.4	1680.2	1501.7	1399.9	1391.1	1363.0
77.5°	3780.8	1088.7	783.3	908.7	1065.1	1438.3	1643.3	1348.3	1194.9	1159.5	1137.3
80°	1497.3	708.1	569.4	688.9	744.9	1276.0	1554.8	1169.8	985.4	950.0	916.1
82.5°	618.1	418.9	367.3	461.7	485.3	1091.6	1395.5	958.8	761.2	1053.3	1118.2
85°	265.5	230.1	218.3	239.0	274.4	765.6	1110.8	731.7	821.7	733.1	582.7
87.5°	79.7	97.4	92.9	91.5	100.3	182.9	591.5	407.1	603.3	228.6	171.1
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)