

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: P320962

Luminaire Tested: **GAN-SA8B-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8B-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46987 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

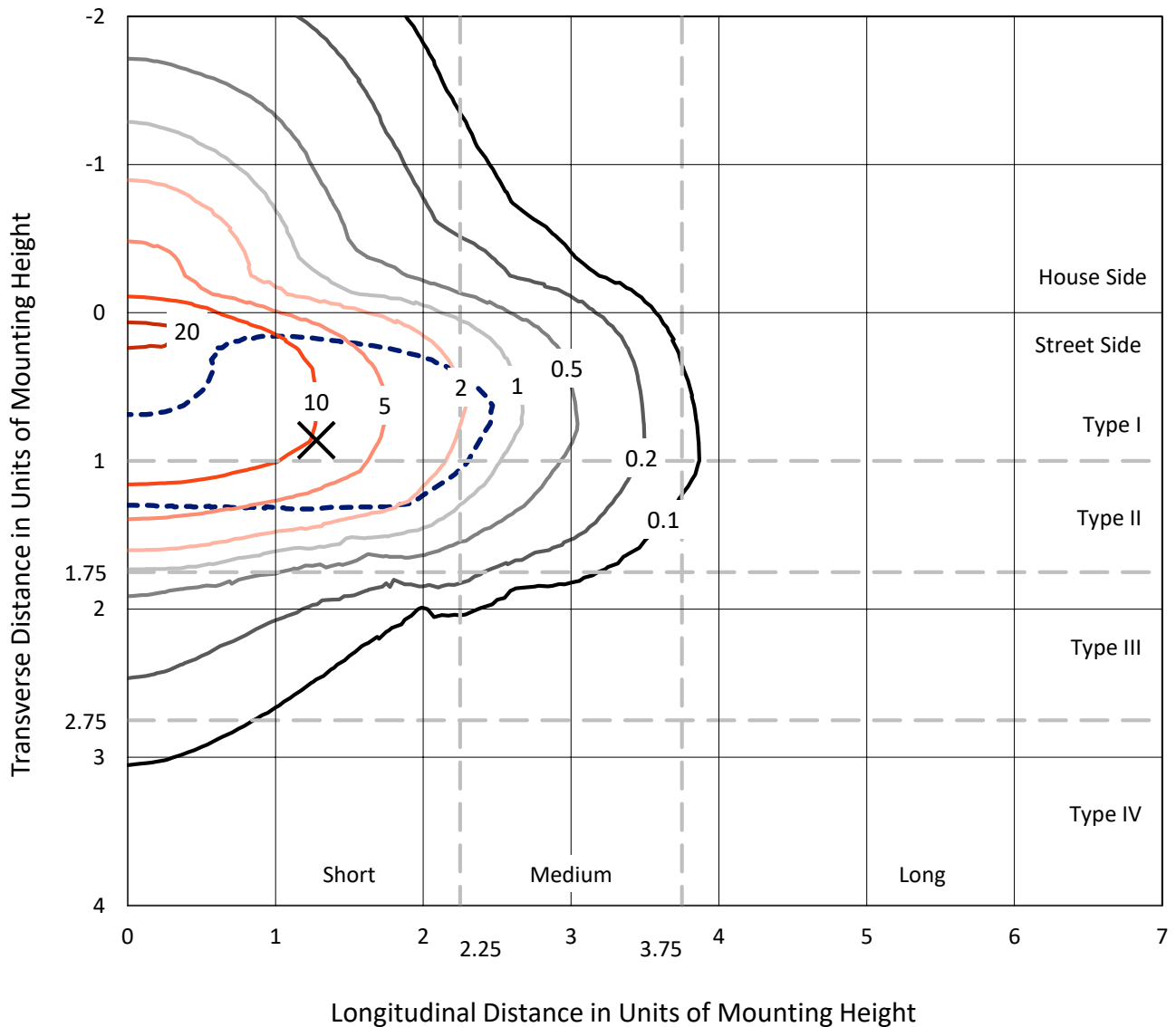
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

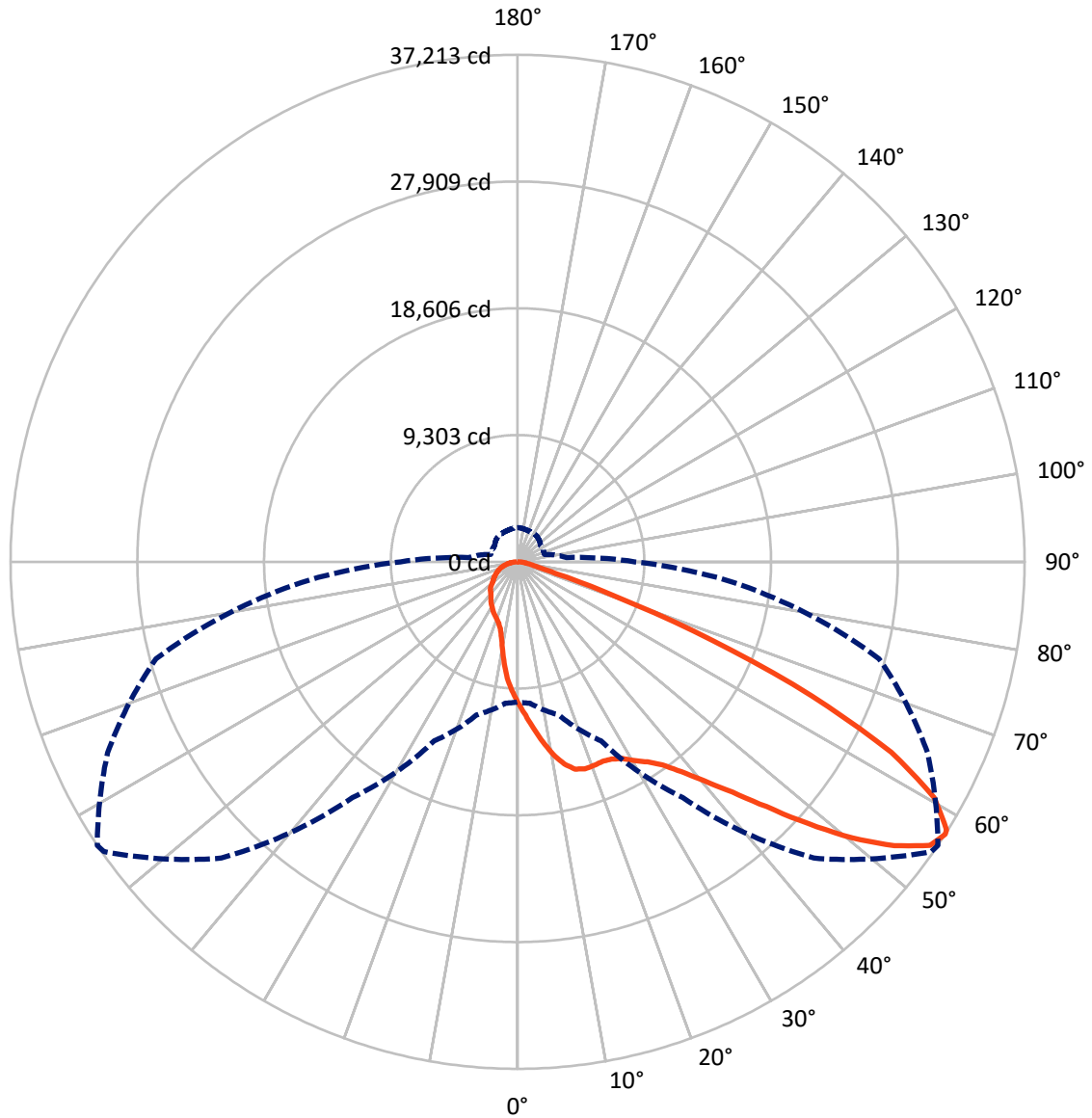
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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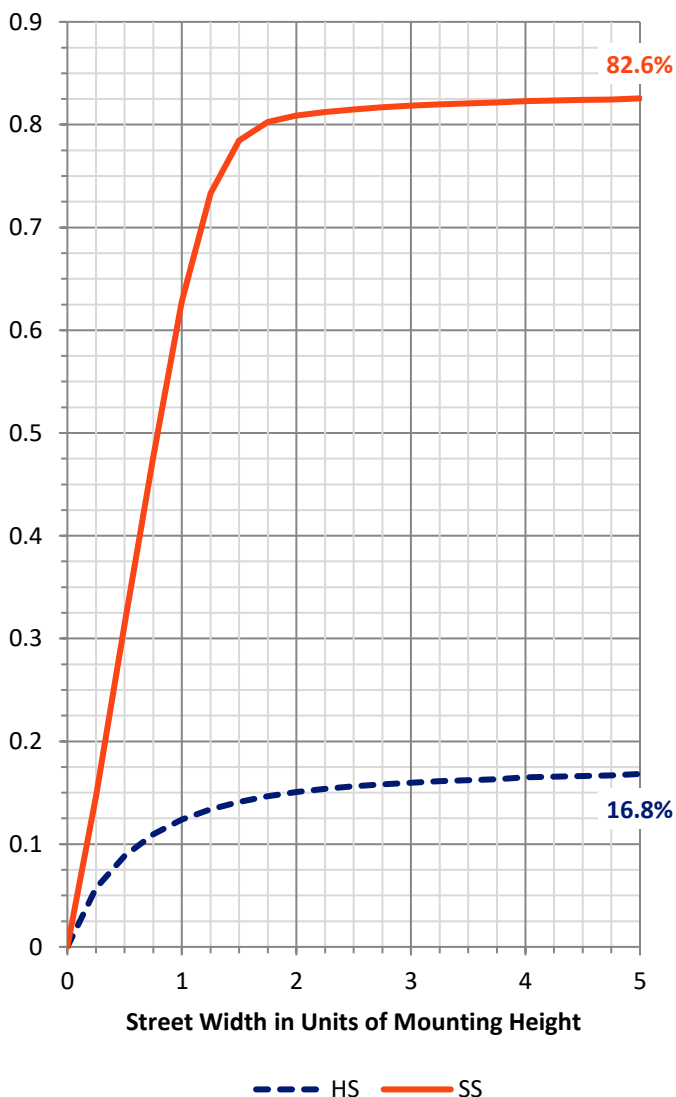
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8099.6	0.0	8099.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	38887.4	0.0	38887.4
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	46987.0	0.0	46987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	995.5	2.1
10°-20°	2814.6	6.0
20°-30°	4584.5	9.8
30°-40°	6853.3	14.6
40°-50°	10395.0	22.1
50°-60°	11650.9	24.8
60°-70°	6881.5	14.6
70°-80°	2254.6	4.8
80°-90°	557.0	1.2
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°	46987.0	100.0
0°-180°	46987.0	100.0

**Coefficient of Utilization**

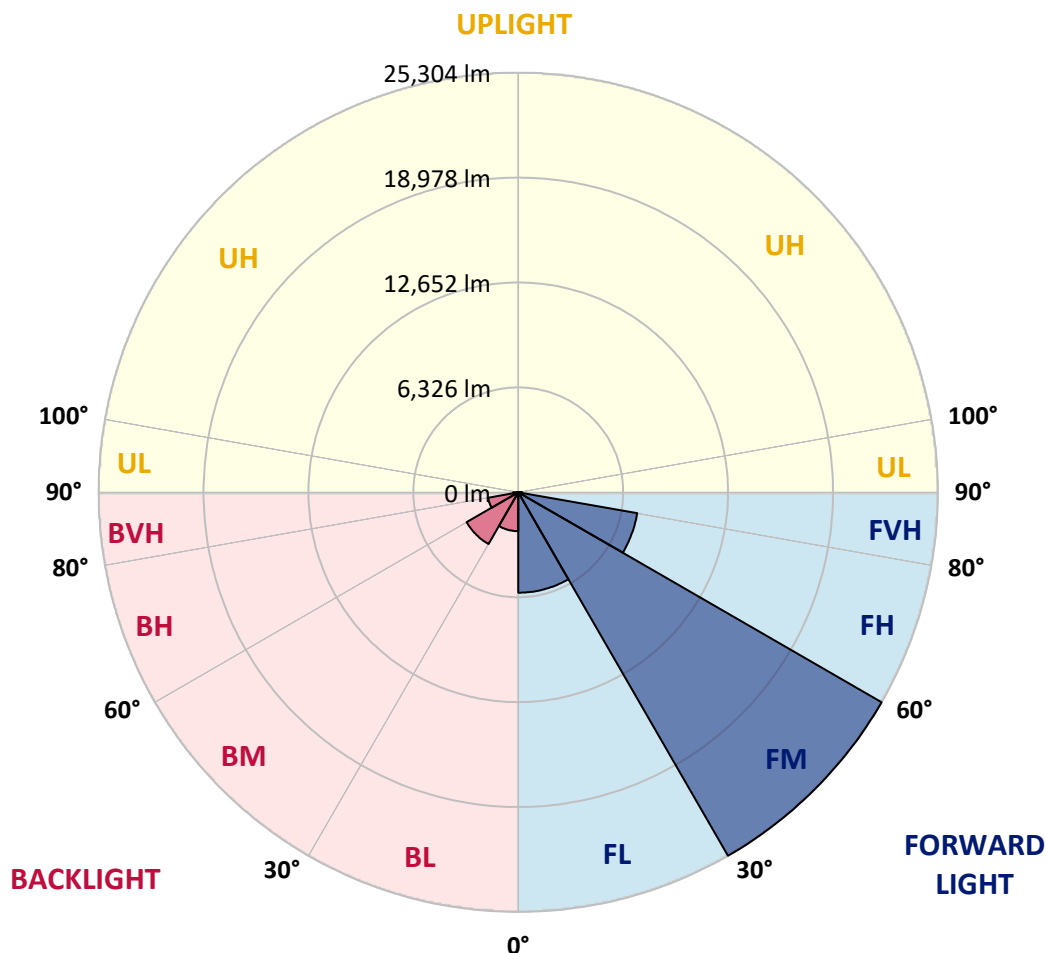


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6052.6	12.9			
FM (30°-60°)	25304.1	53.9			
FH (60°-80°)	7285.5	15.5			G3/7500
FVH (80°-90°)	245.3	0.5			G3/500
BL (0°-30°)	2342.0	5.0	B3/2500		
BM (30°-60°)	3595.1	7.7	B3/5000		
BH (60°-80°)	1850.7	3.9	B3/2500		G3/2500
BVH (80°-90°)	311.8	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8
2.5°	11967.1	12076.9	12028.5	11860.5	11731.3	11548.9	11345.4	11284.0	11069.3	10828.7	10539.6
5°	13861.2	13806.3	13727.2	13465.6	13189.5	12868.1	12357.9	12277.1	11799.2	11255.0	10680.1
7.5°	14939.9	14935.1	14888.2	14734.8	14482.9	14063.1	13447.8	13352.6	12630.8	11755.6	10864.2
10°	14783.3	14772.0	14849.5	15009.3	15085.2	14998.0	14479.7	14384.4	13497.9	12309.4	11077.4
12.5°	13893.5	13900.0	14024.3	14360.2	14817.2	15366.2	15282.2	15235.4	14397.3	12936.0	11335.7
15°	13200.8	13215.3	13313.8	13606.1	14145.4	15141.7	15769.9	15786.0	15267.7	13627.1	11637.7
17.5°	12897.2	12927.9	12973.1	13178.2	13672.3	14694.5	15886.2	15973.4	16029.9	14344.0	11928.3
20°	12994.1	13023.2	13036.1	13166.9	13572.2	14423.2	15805.4	15962.1	16614.4	15019.0	12219.0
22.5°	13428.5	13446.2	13454.3	13488.2	13803.1	14500.7	15752.1	15916.8	17037.5	15624.6	12438.6
25°	14148.7	14135.7	14084.1	14040.5	14252.0	14807.5	15874.9	16031.5	17381.4	16173.6	12582.3
27.5°	15011.0	14994.8	14894.7	14775.2	14896.3	15285.5	16228.5	16352.8	17689.9	16687.1	12655.0
30°	16046.0	16004.0	15815.1	15673.0	15719.8	16002.4	16811.4	16924.5	18166.2	17270.0	12726.0
32.5°	17242.6	17197.4	16924.5	16688.7	16688.7	16924.5	17412.1	17505.8	18569.9	17928.8	12840.7
35°	18741.1	18684.6	18329.3	17933.7	17822.3	17941.8	18230.8	18297.0	19296.6	18758.8	13049.0
37.5°	20507.6	20431.8	19971.5	19441.9	19198.1	19191.6	19399.9	19535.6	20457.6	19848.8	13402.6
40°	22279.1	22225.8	21823.7	21407.1	20929.1	20775.7	21097.0	21139.0	21975.5	21202.0	13854.8
42.5°	23648.4	23638.7	23564.4	23619.3	23130.0	22820.0	23071.9	23105.8	23829.2	22666.6	14336.0
45°	24371.8	24388.0	24748.0	25545.7	25726.6	25500.5	25624.9	25634.6	25947.8	24144.1	14776.8
47.5°	23792.1	23876.1	24786.8	26571.1	28051.9	28802.7	28596.1	28715.5	28001.8	25413.3	15122.4
50°	21533.0	21636.4	23186.6	26114.1	29137.0	31998.4	31890.2	31862.7	29658.6	26343.4	15309.7
52.5°	18734.6	18815.4	20094.3	23738.8	28340.9	33765.0	34758.0	34615.9	31131.3	27039.4	15345.2
55°	14473.2	14599.2	15824.8	18997.8	25121.1	33090.0	36866.9	36739.4	32473.1	27404.4	15303.2
57°	10289.3	10421.8	11639.3	14499.1	21132.6	30753.4	37076.9	37212.5	33198.2	27465.7	15350.1
57.5°	9181.6	9317.3	10523.5	13300.9	19889.2	29908.9	36896.0	37122.1	33329.0	27456.0	15375.9
60°	4623.1	4674.8	5443.4	7424.7	12572.6	24179.6	34536.8	35119.7	33446.8	26981.3	15487.3
62.5°	2874.3	2837.2	2812.9	3420.1	6116.8	16034.7	29668.3	30790.5	31191.0	25831.6	15217.6
65°	2527.1	2457.7	2191.2	2142.8	2701.5	7788.1	22342.0	23738.8	26370.9	24019.8	14575.0
67.5°	2373.7	2305.9	2005.6	1824.7	1826.3	3087.5	13870.9	15443.7	20543.2	20956.6	13058.7
70°	2215.5	2154.1	1873.1	1660.0	1555.0	1710.0	6381.6	7574.9	13391.3	16472.3	10914.3
72.5°	2012.0	1970.0	1703.6	1484.0	1372.6	1280.5	2443.2	2885.6	7752.5	11062.8	7579.8
75°	1798.9	1760.1	1532.4	1322.5	1186.9	1007.6	1375.8	1482.4	3938.4	5659.8	3731.7
77.5°	1564.7	1542.1	1362.9	1169.1	1060.9	834.8	973.7	1025.4	1689.1	2427.0	1871.5
80°	1245.0	1288.6	1191.7	1041.5	941.4	668.5	689.5	723.4	983.4	1185.2	1062.5
82.5°	810.6	886.5	933.3	846.1	775.1	526.4	495.7	510.3	641.1	723.4	461.8
85°	337.5	379.5	613.6	553.9	515.1	384.3	332.6	339.1	397.2	411.8	188.9
87.5°	150.2	159.9	269.7	253.5	218.0	132.4	142.1	155.0	211.5	200.2	72.7
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°	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8	10421.8
2.5°	10431.4	10295.8	10063.3	9806.5	9596.6	9428.7	9259.1	9142.9	9007.2	8934.6	8897.4
5°	10439.5	10173.1	9683.8	9181.6	8732.7	8322.6	7931.8	7631.4	7350.5	7198.7	7156.7
7.5°	10473.4	10073.0	9281.7	8455.0	7657.3	6929.0	6367.1	6015.0	5761.5	5648.5	5616.2
10°	10500.9	9955.1	8784.4	7560.4	6475.2	5737.3	5301.3	5104.3	5017.1	5002.6	4988.0
12.5°	10565.5	9834.0	8261.2	6627.0	5556.4	5046.2	4894.4	4881.5	4905.7	4941.2	4941.2
15°	10667.2	9714.5	7663.7	5826.1	4971.9	4792.7	4823.3	4894.4	4960.6	5015.5	5023.6
17.5°	10741.5	9567.5	7021.0	5185.0	4660.2	4708.7	4818.5	4918.6	4986.4	5039.7	5044.6
20°	10794.8	9339.9	6334.8	4695.8	4481.0	4631.2	4768.4	4857.2	4904.1	4957.4	4965.4
22.5°	10767.3	9034.7	5726.0	4345.4	4335.7	4518.1	4648.9	4755.5	4720.0	4668.3	4702.2
25°	10634.9	8614.8	5099.5	4083.8	4182.3	4366.4	4527.8	4456.8	4337.3	4314.7	4327.6
27.5°	10399.2	8078.7	4519.8	3841.6	4004.6	4225.9	4216.2	4145.1	4103.1	4074.1	4091.8
30°	10145.6	7497.4	4012.7	3630.0	3807.6	3990.1	3953.0	3951.4	3909.4	3862.5	3885.1
32.5°	9895.3	6912.9	3610.6	3455.6	3659.1	3683.3	3764.0	3788.3	3705.9	3607.4	3600.9
35°	9677.3	6360.6	3305.4	3297.4	3479.8	3483.1	3600.9	3567.0	3362.0	3260.2	3260.2
37.5°	9514.3	5810.0	3072.9	3155.3	3244.1	3328.1	3387.8	3247.3	3213.4	3156.9	3155.3
40°	9443.2	5325.5	2927.6	3047.1	3077.8	3184.3	3030.9	3085.8	3102.0	3072.9	3072.9
42.5°	9368.9	4904.1	2801.6	2964.7	2959.9	2945.4	2867.8	2938.9	3003.5	3005.1	3000.3
45°	9294.6	4540.7	2690.2	2788.7	2856.5	2699.9	2714.4	2790.3	2880.8	2913.1	2913.1
47.5°	9212.3	4253.3	2588.5	2603.0	2708.0	2603.0	2591.7	2649.8	2756.4	2808.1	2819.4
50°	9031.4	3995.0	2472.2	2439.9	2469.0	2504.5	2514.2	2541.7	2659.5	2741.9	2761.3
52.5°	8781.1	3764.0	2323.7	2289.8	2289.8	2423.8	2469.0	2477.1	2577.2	2675.7	2695.1
55°	8572.8	3617.1	2170.3	2163.8	2157.3	2338.2	2415.7	2428.6	2498.1	2575.6	2585.3
57°	8587.4	3605.8	2052.4	2058.8	2057.2	2251.0	2365.6	2393.1	2428.6	2494.8	2506.1
57.5°	8595.4	3613.9	2026.5	2029.8	2028.2	2226.8	2351.1	2381.8	2409.2	2478.7	2490.0
60°	8716.6	3634.9	1921.6	1886.1	1894.1	2097.6	2268.8	2307.5	2325.3	2417.3	2431.9
62.5°	8537.3	3541.2	1837.6	1752.0	1752.0	1962.0	2154.1	2215.5	2242.9	2367.3	2391.5
65°	8017.4	3278.0	1739.1	1600.2	1616.4	1826.3	2016.9	2117.0	2159.0	2314.0	2339.8
67.5°	7214.8	2972.8	1634.2	1464.6	1480.7	1684.2	1874.8	1982.9	2049.1	2255.8	2276.8
70°	6170.1	2599.8	1492.1	1320.9	1340.3	1529.2	1706.8	1829.5	1928.0	2200.9	2207.4
72.5°	4548.8	2131.5	1293.4	1162.6	1183.6	1348.3	1537.3	1679.4	1811.8	2063.7	2060.5
75°	2704.7	1666.4	1073.8	1002.8	1017.3	1170.7	1383.9	1556.6	1755.3	2010.4	2041.1
77.5°	1640.6	1254.7	875.2	839.7	857.4	1014.1	1274.1	1458.1	1731.0	1895.7	1886.1
80°	991.5	896.2	699.2	676.6	694.4	867.1	1178.8	1383.9	1513.0	1619.6	1619.6
82.5°	518.3	547.4	513.5	495.7	520.0	704.0	1072.2	1207.9	1337.0	1148.1	1072.2
85°	211.5	285.8	311.7	310.0	324.6	487.7	925.3	1033.5	862.3	818.7	838.1
87.5°	71.1	121.1	151.8	130.8	137.3	306.8	641.1	499.0	592.6	413.4	392.4
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)