

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: McGRAW-EDISON

Report Number: P529281

Luminaire Tested: **GALN-SA4B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-830-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11830 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

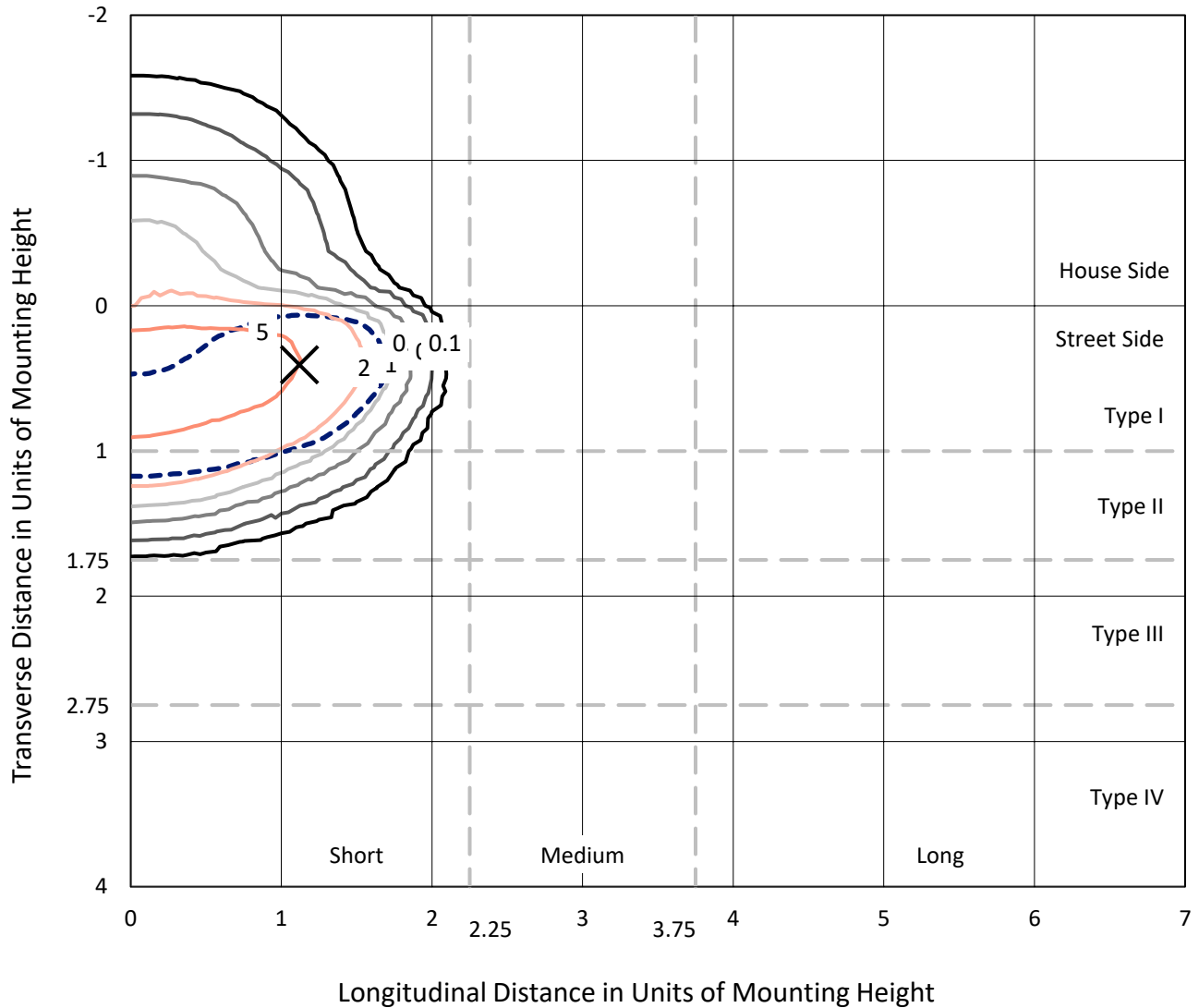
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

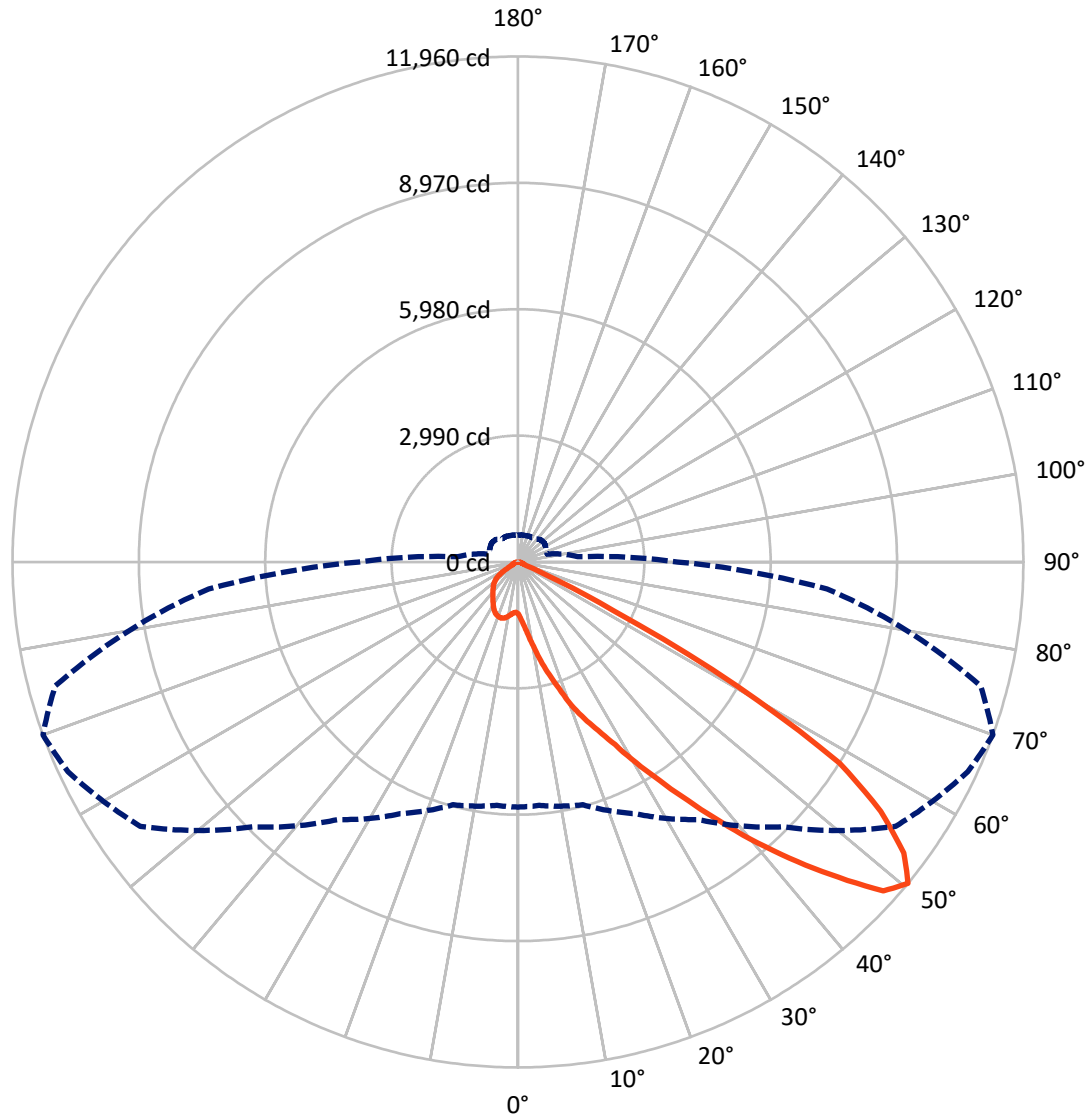
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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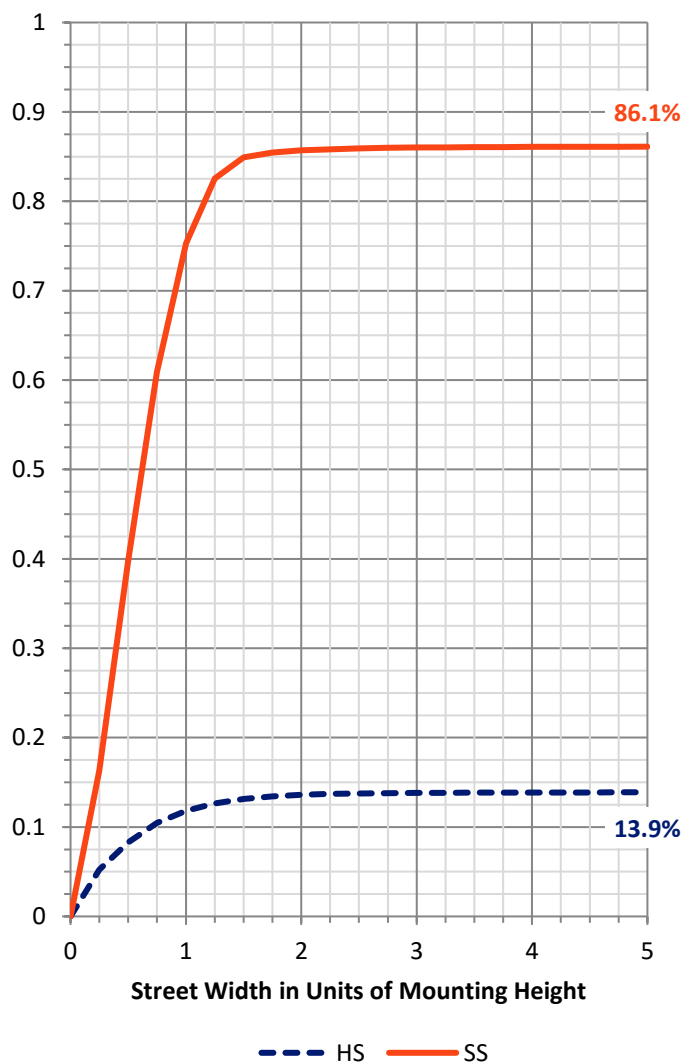
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1652.1	0.0	1652.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	10177.9	0.0	10177.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	11830.0	0.0	11830.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	1.3
10°-20°	689.3	5.8
20°-30°	1445.9	12.2
30°-40°	2492.3	21.1
40°-50°	3642.5	30.8
50°-60°	2836.9	24.0
60°-70°	480.7	4.1
70°-80°	66.0	0.6
80°-90°	17.1	0.1
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°	11830.0	100.0
0°-180°	11830.0	100.0

**Coefficient of Utilization**



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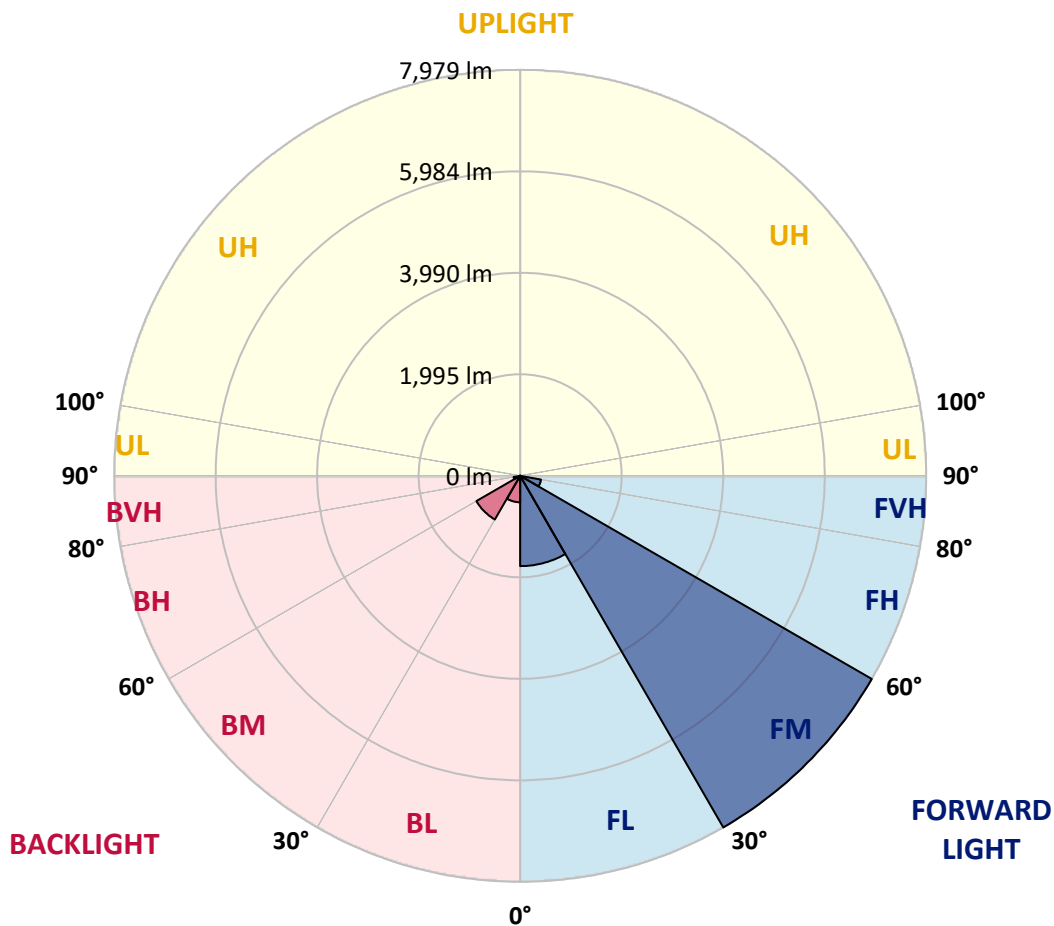
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.6	15.0			
FM (30°-60°)	7979.1	67.4			
FH (60°-80°)	416.2	3.5			G0/660
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	519.9	4.4	B2/1000		
BM (30°-60°)	992.5	8.4	B1/1000		
BH (60°-80°)	130.5	1.1	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4
2.5°	1604.6	1593.0	1567.7	1521.0	1501.5	1454.9	1427.6	1375.1	1342.1	1305.1	1264.3
5°	2260.1	2199.8	2162.8	2110.3	1956.7	1861.4	1703.8	1569.6	1507.4	1439.3	1345.9
7.5°	2937.0	2898.1	2847.5	2734.7	2629.7	2431.3	2160.9	1865.3	1738.8	1622.1	1437.4
10°	3497.1	3388.2	3382.4	3298.7	3184.0	2946.7	2621.9	2254.3	2028.6	1857.5	1567.7
12.5°	3888.1	3788.9	3833.6	3823.9	3716.9	3499.1	3123.7	2637.4	2402.1	2135.6	1701.9
15°	4244.0	4203.2	4189.5	4177.9	4135.1	3973.7	3637.2	3104.2	2763.9	2442.9	1853.6
17.5°	4592.2	4487.1	4537.7	4547.4	4543.5	4397.7	4082.6	3547.7	3147.0	2767.7	2013.1
20°	4901.4	4911.1	4843.1	4829.5	4817.8	4811.9	4504.6	3987.3	3617.7	3108.1	2221.2
22.5°	5298.2	5230.1	5290.4	5251.5	5175.7	5129.0	4893.6	4376.3	4026.2	3518.5	2433.2
25°	5766.9	5821.4	5679.4	5663.9	5580.2	5418.8	5206.8	4811.9	4419.1	3899.7	2662.7
27.5°	6344.6	6249.3	6212.4	6126.8	5975.1	5907.0	5658.0	5261.2	4893.6	4300.4	2884.4
30°	6840.6	6815.3	6630.5	6529.4	6397.1	6395.2	6047.0	5870.0	5512.2	4928.7	3189.8
32.5°	7245.2	7134.3	7066.2	6996.2	6889.2	6918.4	6624.7	6531.3	6171.5	5512.2	3549.6
35°	7515.5	7435.8	7394.9	7287.9	7256.8	7387.1	7264.6	7225.7	6930.1	6332.9	3971.7
37.5°	7601.1	7626.4	7618.6	7484.4	7550.5	7902.6	8060.1	7959.0	7803.4	7198.5	4428.8
40°	7676.9	7694.5	7655.6	7813.1	8001.8	8402.4	8972.3	8805.1	8746.7	8075.7	5064.8
42.5°	7719.7	7706.1	7706.1	7978.4	8264.3	9069.6	9853.4	9742.5	9697.8	9009.3	5800.0
45°	7535.0	7402.7	7544.7	7914.2	8490.0	9398.3	10557.5	10711.2	10647.0	10119.9	6659.7
47.5°	6844.5	6926.2	7005.9	7500.0	8215.7	9297.1	10989.3	11512.5	11631.1	11053.5	7223.8
50°	5800.0	5782.5	5947.8	6570.2	7439.7	8861.5	10905.7	11744.0	11959.9	11333.6	7342.4
52.5°	4218.7	4347.1	4526.0	5144.5	6175.4	7733.4	9826.2	11146.8	11434.7	10989.3	7264.6
55°	2456.5	2314.6	2717.2	3240.4	4212.9	5833.1	8307.1	9880.6	10413.6	10363.0	6871.7
57.5°	984.2	953.1	1091.1	1470.4	2197.9	3615.8	6041.2	8118.5	8972.3	9491.6	6039.2
60°	431.8	422.1	496.0	599.1	898.6	1666.9	3304.6	5049.2	5940.1	6632.5	4156.5
62.5°	311.2	307.3	344.3	381.2	474.6	725.5	1388.7	2034.5	2536.3	3063.4	1861.4
65°	250.9	260.6	285.9	305.4	350.1	402.6	490.1	566.0	694.4	719.7	410.4
67.5°	204.2	212.0	235.3	256.7	264.5	217.8	225.6	198.4	198.4	177.0	142.0
70°	149.8	151.7	178.9	204.2	163.4	87.5	153.7	153.7	138.1	132.3	120.6
72.5°	110.9	112.8	134.2	126.4	64.2	54.5	112.8	124.5	112.8	107.0	97.3
75°	81.7	83.6	70.0	29.2	27.2	35.0	66.1	85.6	81.7	79.7	73.9
77.5°	15.6	11.7	9.7	13.6	19.5	29.2	42.8	52.5	54.5	58.4	54.5
80°	1.9	1.9	5.8	11.7	21.4	31.1	44.7	50.6	52.5	54.5	50.6
82.5°	0.0	1.9	5.8	11.7	21.4	29.2	38.9	44.7	48.6	50.6	48.6
85°	0.0	1.9	3.9	9.7	17.5	21.4	19.5	13.6	11.7	13.6	9.7
87.5°	0.0	0.0	1.9	1.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4	1225.4
2.5°	1240.9	1233.1	1205.9	1176.7	1151.4	1163.1	1151.4	1141.7	1145.6	1141.7	1137.8
5°	1309.0	1274.0	1215.6	1190.3	1168.9	1167.0	1161.2	1159.2	1161.2	1161.2	1143.7
7.5°	1373.2	1316.8	1254.5	1227.3	1202.0	1204.0	1190.3	1190.3	1188.4	1178.7	1174.8
10°	1470.4	1394.6	1314.8	1266.2	1235.1	1229.2	1215.6	1202.0	1202.0	1202.0	1182.6
12.5°	1577.4	1482.1	1373.2	1316.8	1279.8	1250.6	1229.2	1225.4	1204.0	1200.1	1190.3
15°	1670.8	1550.2	1412.1	1334.3	1287.6	1248.7	1215.6	1194.2	1184.5	1178.7	1170.9
17.5°	1762.2	1608.5	1433.5	1334.3	1283.7	1239.0	1204.0	1184.5	1161.2	1165.1	1149.5
20°	1884.7	1670.8	1439.3	1309.0	1246.8	1204.0	1157.3	1147.6	1133.9	1122.3	1126.2
22.5°	2003.4	1715.5	1421.8	1277.9	1188.4	1137.8	1114.5	1102.8	1097.0	1087.3	1073.6
25°	2110.3	1764.1	1394.6	1221.5	1126.2	1089.2	1067.8	1065.9	1052.2	1052.2	1027.0
27.5°	2219.3	1781.6	1347.9	1155.3	1071.7	1050.3	1040.6	1036.7	1030.9	1017.2	999.7
30°	2343.7	1787.5	1279.8	1087.3	1023.1	999.7	1013.3	1023.1	997.8	972.5	980.3
32.5°	2446.8	1773.8	1198.1	1023.1	988.1	976.4	1003.6	1013.3	984.2	956.9	943.3
35°	2571.3	1740.8	1118.4	972.5	953.1	976.4	999.7	999.7	941.4	908.3	900.5
37.5°	2760.0	1703.8	1044.5	929.7	916.1	964.7	995.8	974.4	883.0	842.2	832.5
40°	2962.2	1680.5	972.5	886.9	896.6	945.3	962.8	896.6	803.3	778.0	770.2
42.5°	3255.9	1633.8	908.3	850.0	879.1	918.0	918.0	799.4	764.4	750.8	748.8
45°	3621.6	1600.7	851.9	818.8	853.9	863.6	832.5	748.8	723.5	719.7	721.6
47.5°	3800.5	1536.6	793.6	781.9	807.2	809.1	727.4	708.0	686.6	680.8	676.9
50°	3773.3	1421.8	717.7	733.3	768.3	748.8	663.2	667.1	647.7	645.7	636.0
52.5°	3582.7	1240.9	641.9	678.8	717.7	661.3	610.7	606.8	606.8	581.6	571.8
55°	3176.2	999.7	550.4	597.1	643.8	556.3	542.7	538.8	529.0	505.7	499.9
57.5°	2514.9	733.3	414.3	464.9	546.5	472.6	470.7	453.2	427.9	410.4	410.4
60°	1495.7	422.1	260.6	284.0	361.8	383.2	426.0	418.2	375.4	348.2	340.4
62.5°	682.7	217.8	165.3	169.2	194.5	249.0	334.5	387.1	326.8	280.1	276.2
65°	229.5	161.4	136.2	130.3	134.2	149.8	200.3	274.2	260.6	215.9	208.1
67.5°	140.0	143.9	128.4	118.6	118.6	116.7	114.8	124.5	153.7	149.8	151.7
70°	120.6	132.3	118.6	107.0	103.1	97.3	81.7	68.1	58.4	68.1	72.0
72.5°	97.3	105.0	101.1	91.4	81.7	73.9	58.4	44.7	33.1	29.2	29.2
75°	72.0	77.8	81.7	70.0	62.2	52.5	42.8	29.2	17.5	11.7	11.7
77.5°	52.5	58.4	60.3	54.5	46.7	37.0	27.2	19.5	9.7	3.9	3.9
80°	44.7	52.5	58.4	54.5	48.6	35.0	25.3	13.6	7.8	1.9	1.9
82.5°	42.8	52.5	58.4	52.5	46.7	33.1	25.3	15.6	5.8	1.9	1.9
85°	9.7	13.6	17.5	21.4	25.3	25.3	19.5	11.7	5.8	1.9	1.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	1.9	1.9	0.0
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)