

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: P528891

Luminaire Tested: **GALN-SA4A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528891  
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-SA4A-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA 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: 10897 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

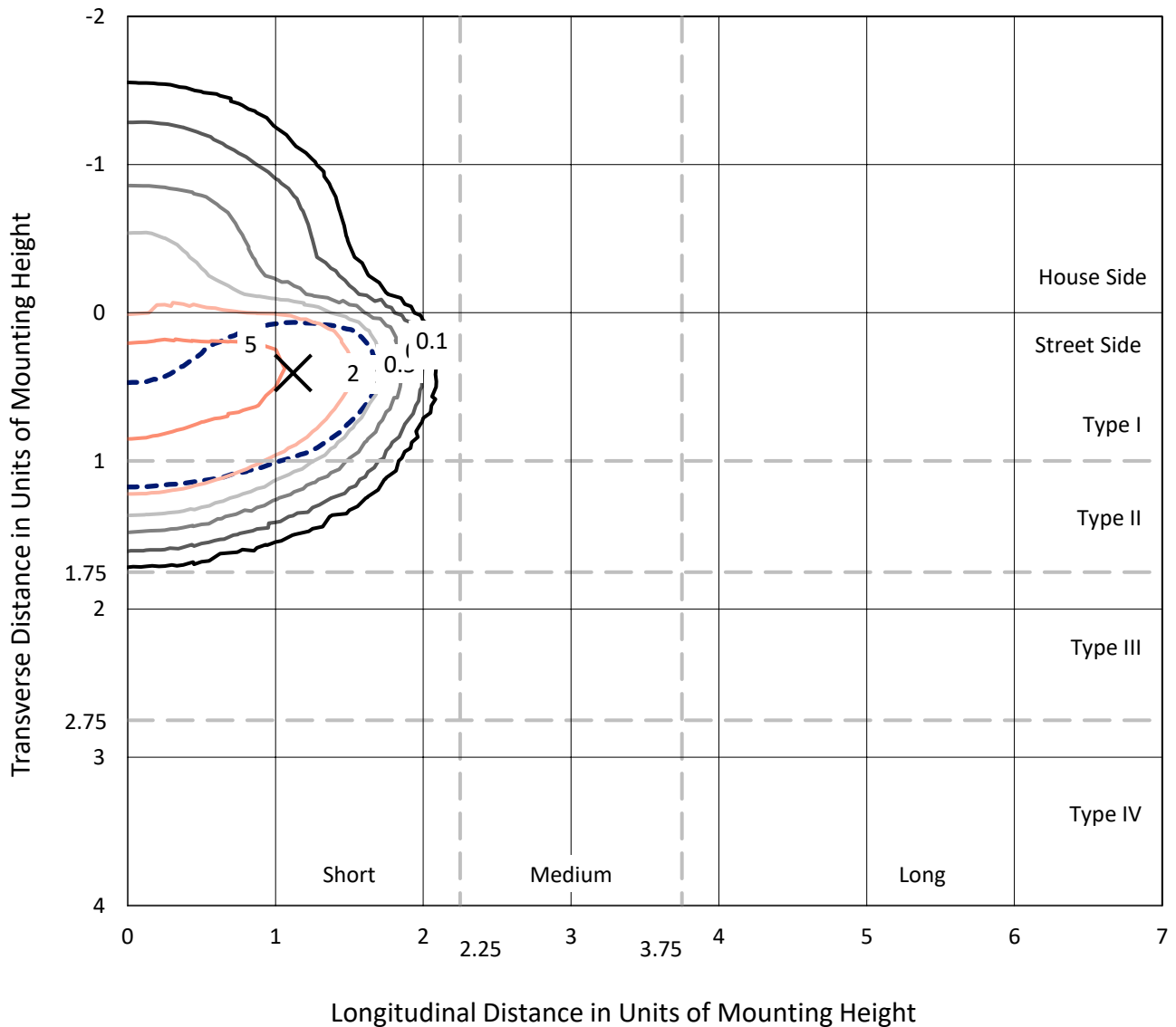
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

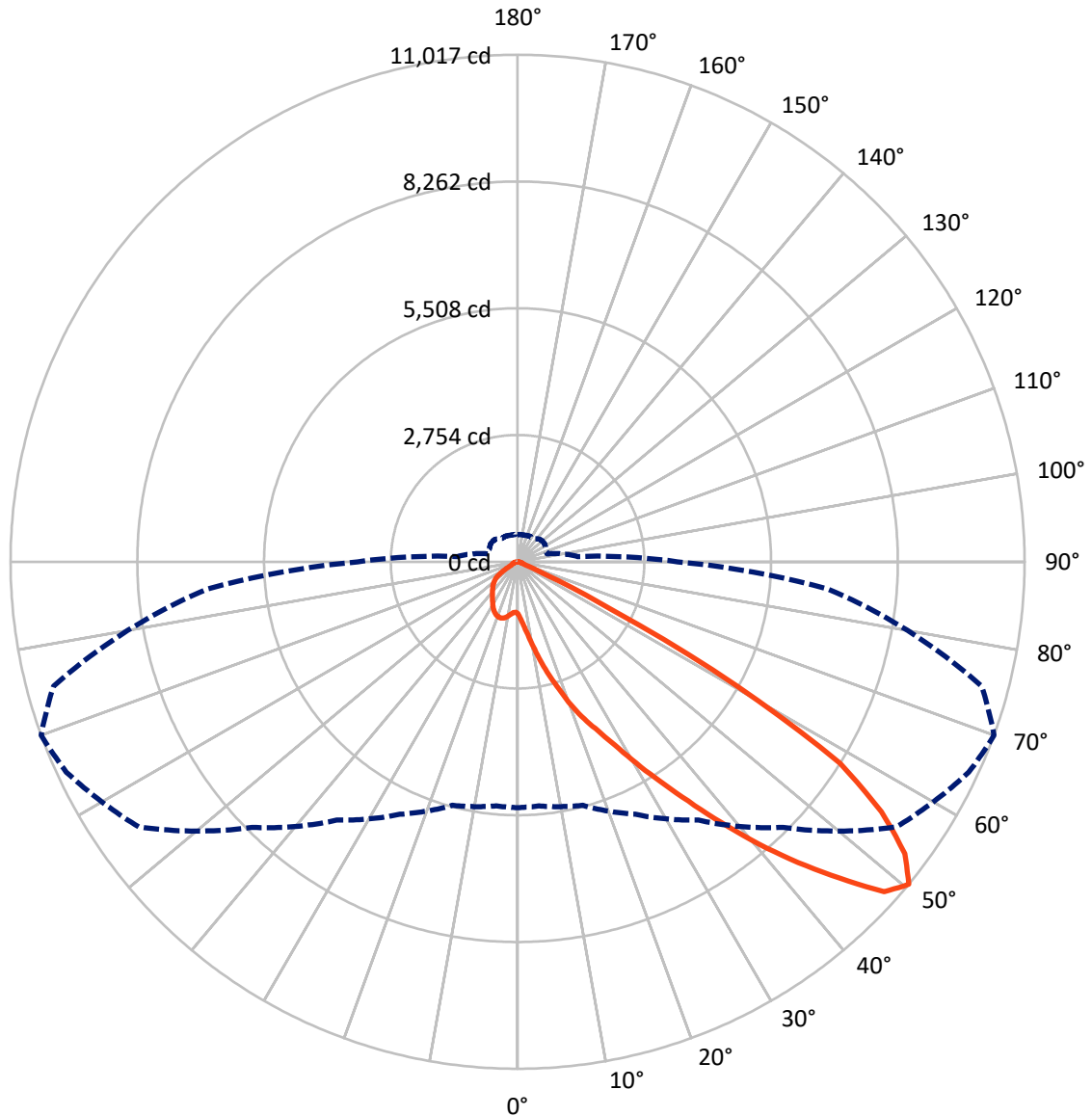
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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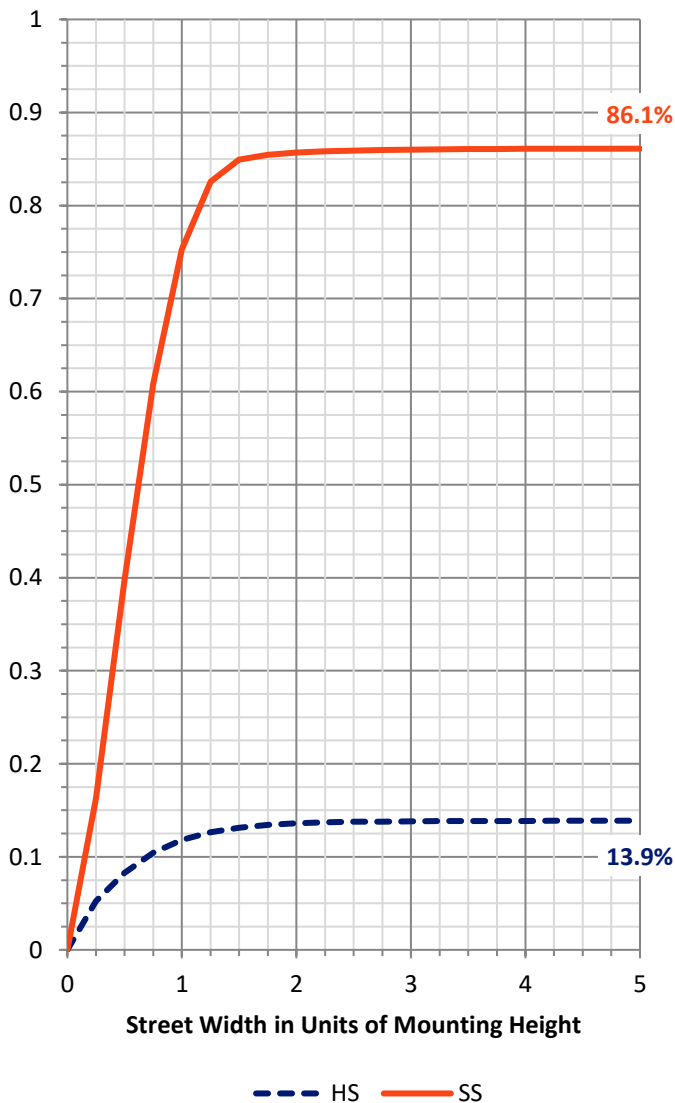
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1521.8	0.0	1521.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	9375.2	0.0	9375.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	10897.0	0.0	10897.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	1.3
10°-20°	634.9	5.8
20°-30°	1331.9	12.2
30°-40°	2295.7	21.1
40°-50°	3355.2	30.8
50°-60°	2613.2	24.0
60°-70°	442.8	4.1
70°-80°	60.8	0.6
80°-90°	15.8	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°	10897.0	100.0
0°-180°	10897.0	100.0

**Coefficient of Utilization**



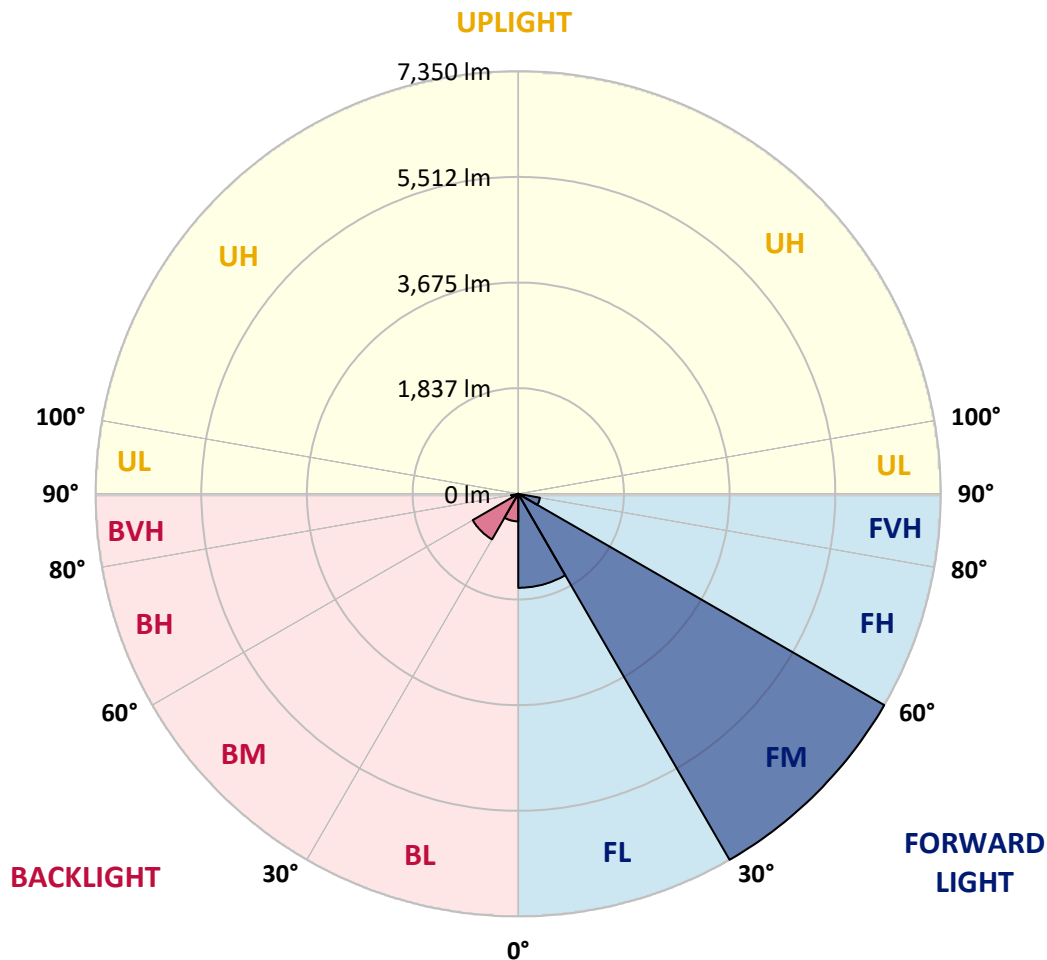
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.7	15.0			
FM (30°-60°)	7349.8	67.4			
FH (60°-80°)	383.4	3.5			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	478.9	4.4	B1/500		
BM (30°-60°)	914.3	8.4	B1/1000		
BH (60°-80°)	120.2	1.1	B1/500		G1/500
BVH (80°-90°)	8.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1478.1	1467.3	1444.0	1401.0	1383.1	1340.1	1315.0	1266.7	1236.2	1202.2	1164.5
5°	2081.9	2026.3	1992.3	1943.9	1802.4	1714.6	1569.5	1445.8	1388.5	1325.8	1239.8
7.5°	2705.3	2669.5	2622.9	2519.0	2422.3	2239.5	1990.5	1718.2	1601.7	1494.2	1324.0
10°	3221.3	3121.0	3115.6	3038.6	2932.9	2714.3	2415.1	2076.5	1868.6	1711.0	1444.0
12.5°	3581.4	3490.1	3531.3	3522.3	3423.8	3223.1	2877.3	2429.4	2212.6	1967.2	1567.7
15°	3909.3	3871.7	3859.1	3848.4	3809.0	3660.3	3350.3	2859.4	2545.9	2250.3	1707.4
17.5°	4230.0	4133.2	4179.8	4188.8	4185.2	4050.8	3760.6	3267.9	2898.8	2549.5	1854.3
20°	4514.9	4523.8	4461.1	4448.6	4437.8	4432.4	4149.4	3672.8	3332.4	2863.0	2046.0
22.5°	4880.3	4817.6	4873.2	4837.3	4767.5	4724.5	4507.7	4031.1	3708.6	3241.0	2241.3
25°	5312.1	5362.3	5231.5	5217.2	5140.1	4991.4	4796.1	4432.4	4070.5	3592.2	2452.7
27.5°	5844.2	5756.4	5722.4	5643.6	5503.8	5441.1	5211.8	4846.3	4507.7	3961.3	2657.0
30°	6301.1	6277.8	6107.6	6014.4	5892.6	5890.8	5570.1	5407.1	5077.4	4539.9	2938.2
32.5°	6673.7	6571.6	6508.9	6444.4	6345.9	6372.8	6102.2	6016.2	5684.8	5077.4	3269.7
35°	6922.8	6849.3	6811.7	6713.2	6684.5	6804.5	6691.7	6655.8	6383.5	5833.5	3658.5
37.5°	7001.6	7024.9	7017.7	6894.1	6955.0	7279.3	7424.4	7331.3	7187.9	6630.8	4079.5
40°	7071.5	7087.6	7051.8	7196.9	7370.7	7739.8	8264.7	8110.6	8056.9	7438.8	4665.4
42.5°	7110.9	7098.4	7098.4	7349.2	7612.6	8354.3	9076.3	8974.2	8933.0	8298.7	5342.6
45°	6940.7	6818.9	6949.7	7290.1	7820.4	8657.1	9724.9	9866.4	9807.3	9321.7	6134.5
47.5°	6304.7	6379.9	6453.4	6908.5	7567.8	8563.9	10122.6	10604.5	10713.8	10181.7	6654.0
50°	5342.6	5326.5	5478.7	6052.1	6852.9	8162.6	10045.6	10817.7	11016.6	10439.7	6763.3
52.5°	3886.0	4004.2	4169.1	4738.8	5688.4	7123.4	9051.2	10267.7	10532.9	10122.6	6691.7
55°	2262.8	2132.0	2502.9	2984.8	3880.6	5373.0	7652.0	9101.4	9592.3	9545.7	6329.8
57.5°	906.6	877.9	1005.1	1354.5	2024.5	3330.6	5564.7	7478.2	8264.7	8743.1	5563.0
60°	397.7	388.8	456.9	551.8	827.7	1535.4	3043.9	4651.0	5471.6	6109.4	3828.7
62.5°	286.7	283.1	317.1	351.2	437.2	668.3	1279.2	1874.0	2336.3	2821.8	1714.6
65°	231.1	240.1	263.4	281.3	322.5	370.9	451.5	521.4	639.6	662.9	378.0
67.5°	188.1	195.3	216.8	236.5	243.7	200.7	207.8	182.7	182.7	163.0	130.8
70°	138.0	139.7	164.8	188.1	150.5	80.6	141.5	141.5	127.2	121.8	111.1
72.5°	102.1	103.9	123.6	116.5	59.1	50.2	103.9	114.7	103.9	98.5	89.6
75°	75.2	77.0	64.5	26.9	25.1	32.2	60.9	78.8	75.2	73.5	68.1
77.5°	14.3	10.7	9.0	12.5	17.9	26.9	39.4	48.4	50.2	53.7	50.2
80°	1.8	1.8	5.4	10.7	19.7	28.7	41.2	46.6	48.4	50.2	46.6
82.5°	0.0	1.8	5.4	10.7	19.7	26.9	35.8	41.2	44.8	46.6	44.8
85°	0.0	1.8	3.6	9.0	16.1	19.7	17.9	12.5	10.7	12.5	9.0
87.5°	0.0	0.0	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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°	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1143.0	1135.9	1110.8	1083.9	1060.6	1071.4	1060.6	1051.7	1055.3	1051.7	1048.1
5°	1205.8	1173.5	1119.8	1096.5	1076.8	1075.0	1069.6	1067.8	1069.6	1069.6	1053.5
7.5°	1264.9	1212.9	1155.6	1130.5	1107.2	1109.0	1096.5	1096.5	1094.7	1085.7	1082.1
10°	1354.5	1284.6	1211.1	1166.3	1137.7	1132.3	1119.8	1107.2	1107.2	1107.2	1089.3
12.5°	1453.0	1365.2	1264.9	1212.9	1178.9	1152.0	1132.3	1128.7	1109.0	1105.4	1096.5
15°	1539.0	1427.9	1300.7	1229.0	1186.0	1150.2	1119.8	1100.0	1091.1	1085.7	1078.5
17.5°	1623.2	1481.7	1320.4	1229.0	1182.5	1141.3	1109.0	1091.1	1069.6	1073.2	1058.8
20°	1736.1	1539.0	1325.8	1205.8	1148.4	1109.0	1066.0	1057.1	1044.5	1033.8	1037.3
22.5°	1845.4	1580.2	1309.7	1177.1	1094.7	1048.1	1026.6	1015.8	1010.5	1001.5	989.0
25°	1943.9	1625.0	1284.6	1125.1	1037.3	1003.3	983.6	981.8	969.3	969.3	946.0
27.5°	2044.2	1641.1	1241.6	1064.2	987.2	967.5	958.5	954.9	949.6	937.0	920.9
30°	2158.9	1646.5	1178.9	1001.5	942.4	920.9	933.4	942.4	919.1	895.8	903.0
32.5°	2253.8	1633.9	1103.6	942.4	910.1	899.4	924.5	933.4	906.6	881.5	868.9
35°	2368.5	1603.5	1030.2	895.8	877.9	899.4	920.9	920.9	867.1	836.7	829.5
37.5°	2542.3	1569.5	962.1	856.4	843.8	888.6	917.3	897.6	813.4	775.8	766.8
40°	2728.6	1548.0	895.8	817.0	825.9	870.7	886.8	825.9	739.9	716.6	709.5
42.5°	2999.2	1505.0	836.7	782.9	809.8	845.6	845.6	736.4	704.1	691.6	689.8
45°	3336.0	1474.5	784.7	754.3	786.5	795.5	766.8	689.8	666.5	662.9	664.7
47.5°	3500.8	1415.4	731.0	720.2	743.5	745.3	670.1	652.1	632.4	627.1	623.5
50°	3475.7	1309.7	661.1	675.4	707.7	689.8	610.9	614.5	596.6	594.8	585.9
52.5°	3300.1	1143.0	591.2	625.3	661.1	609.1	562.6	559.0	559.0	535.7	526.7
55°	2925.7	920.9	507.0	550.0	593.0	512.4	499.9	496.3	487.3	465.8	460.4
57.5°	2316.6	675.4	381.6	428.2	503.4	435.4	433.6	417.4	394.2	378.0	378.0
60°	1377.7	388.8	240.1	261.6	333.2	352.9	392.4	385.2	345.8	320.7	313.5
62.5°	628.9	200.7	152.3	155.9	179.2	229.3	308.2	356.5	301.0	258.0	254.4
65°	211.4	148.7	125.4	120.0	123.6	138.0	184.5	252.6	240.1	198.9	191.7
67.5°	129.0	132.6	118.2	109.3	109.3	107.5	105.7	114.7	141.5	138.0	139.7
70°	111.1	121.8	109.3	98.5	95.0	89.6	75.2	62.7	53.7	62.7	66.3
72.5°	89.6	96.7	93.2	84.2	75.2	68.1	53.7	41.2	30.5	26.9	26.9
75°	66.3	71.7	75.2	64.5	57.3	48.4	39.4	26.9	16.1	10.7	10.7
77.5°	48.4	53.7	55.5	50.2	43.0	34.0	25.1	17.9	9.0	3.6	3.6
80°	41.2	48.4	53.7	50.2	44.8	32.2	23.3	12.5	7.2	1.8	1.8
82.5°	39.4	48.4	53.7	48.4	43.0	30.5	23.3	14.3	5.4	1.8	1.8
85°	9.0	12.5	16.1	19.7	23.3	23.3	17.9	10.7	5.4	1.8	1.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	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)