

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: P528865

Luminaire Tested: **GALN-SA4A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528865
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-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 10006 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

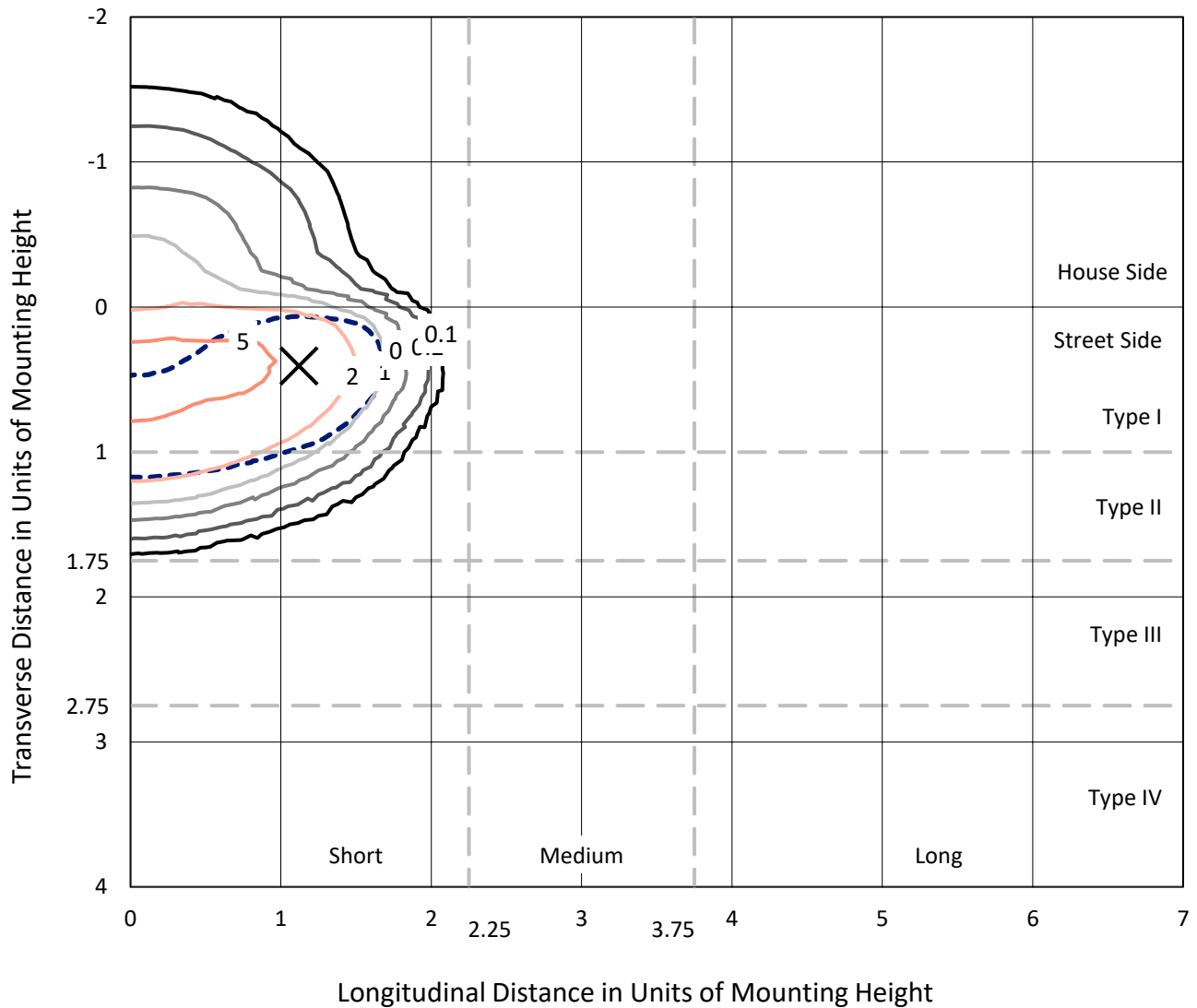
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

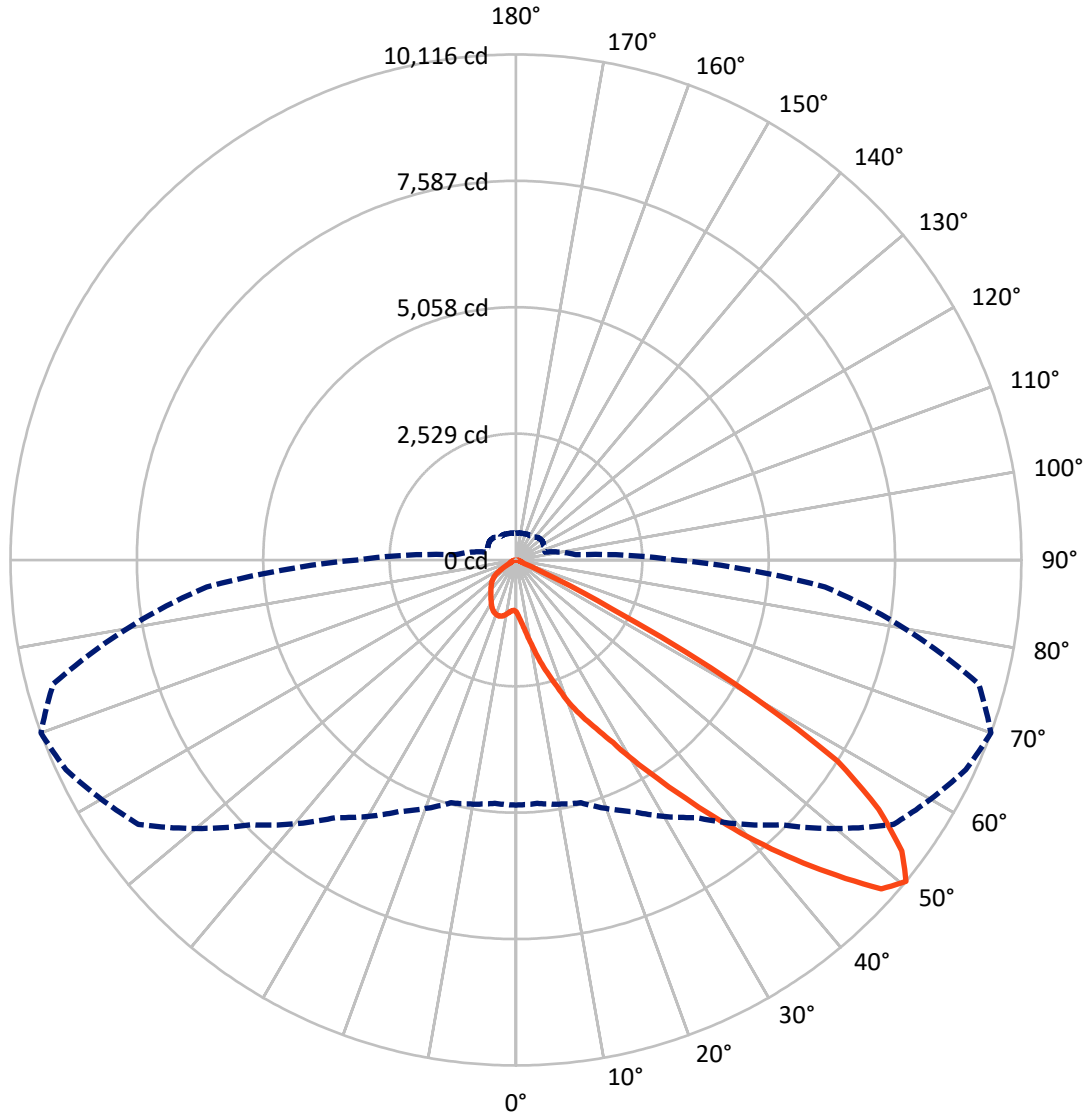
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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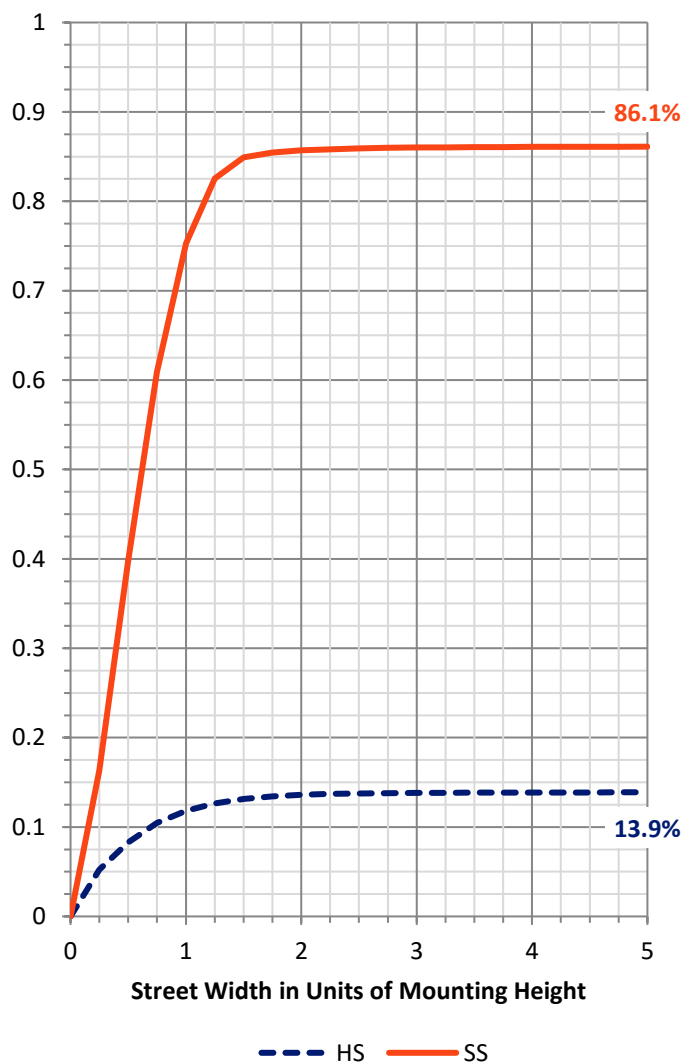
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.4	0.0	1397.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8608.6	0.0	8608.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	10006.0	0.0	10006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	1.3
10°-20°	583.0	5.8
20°-30°	1223.0	12.2
30°-40°	2108.0	21.1
40°-50°	3080.9	30.8
50°-60°	2399.5	24.0
60°-70°	406.5	4.1
70°-80°	55.9	0.6
80°-90°	14.5	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°	10006.0	100.0
0°-180°	10006.0	100.0

Coefficient of Utilization



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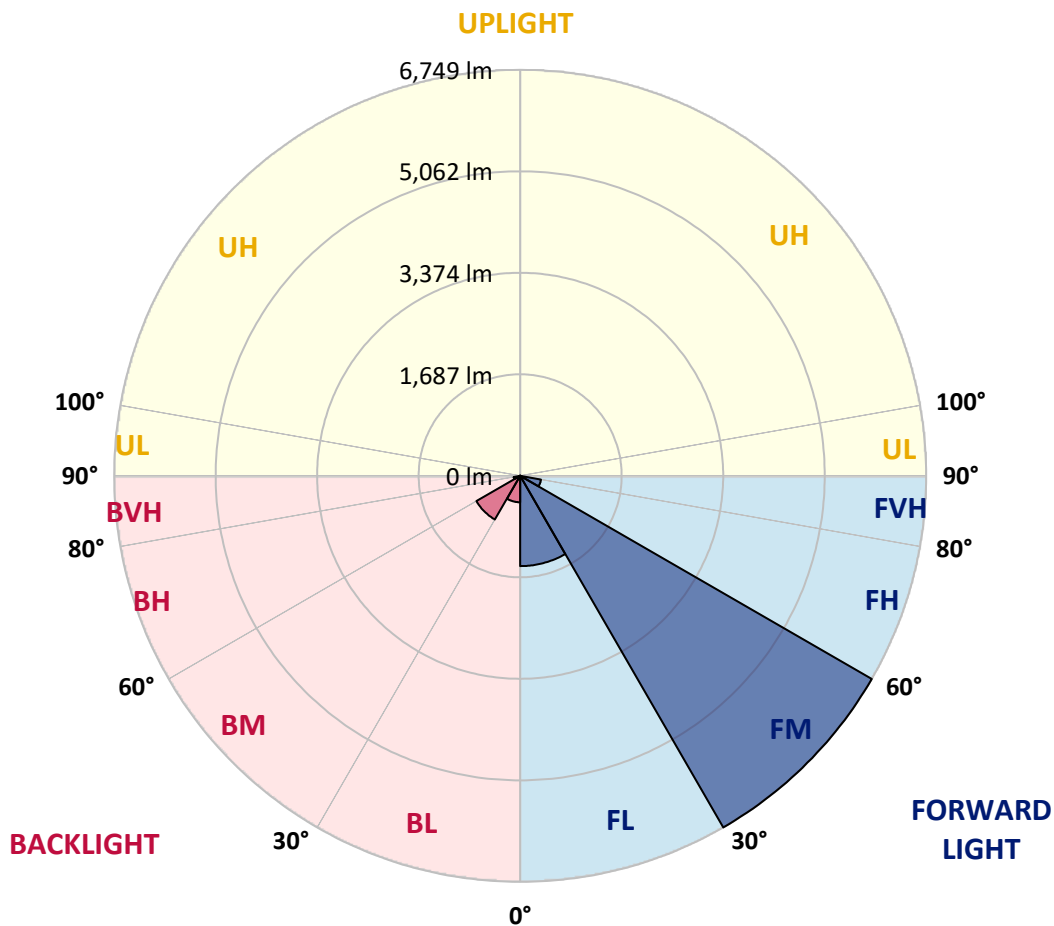
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.0	15.0			
FM (30°-60°)	6748.9	67.4			
FH (60°-80°)	352.0	3.5			G0/660
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	439.7	4.4	B1/500		
BM (30°-60°)	839.5	8.4	B1/1000		
BH (60°-80°)	110.4	1.1	B1/500		G1/500
BVH (80°-90°)	7.8	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°	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4
2.5°	1357.2	1347.4	1326.0	1286.5	1270.0	1230.5	1207.5	1163.1	1135.1	1103.9	1069.3
5°	1911.6	1860.6	1829.4	1785.0	1655.0	1574.4	1441.1	1327.6	1275.0	1217.4	1138.4
7.5°	2484.1	2451.2	2408.5	2313.0	2224.2	2056.4	1827.7	1577.7	1470.7	1372.0	1215.7
10°	2957.9	2865.8	2860.9	2790.1	2693.1	2492.4	2217.6	1906.7	1715.9	1571.1	1326.0
12.5°	3288.6	3204.7	3242.5	3234.3	3143.8	2959.6	2642.1	2230.8	2031.7	1806.3	1439.5
15°	3589.6	3555.1	3543.6	3533.7	3497.5	3361.0	3076.4	2625.6	2337.7	2066.3	1567.8
17.5°	3884.1	3795.3	3838.1	3846.3	3843.0	3719.6	3453.1	3000.7	2661.8	2341.0	1702.7
20°	4145.7	4153.9	4096.3	4084.8	4075.0	4070.0	3810.1	3372.5	3059.9	2628.9	1878.7
22.5°	4481.3	4423.7	4474.7	4441.8	4377.7	4338.2	4139.1	3701.5	3405.4	2976.0	2058.0
25°	4877.8	4923.8	4803.7	4790.6	4719.8	4583.3	4404.0	4070.0	3737.7	3298.5	2252.2
27.5°	5366.4	5285.8	5254.5	5182.1	5053.8	4996.2	4785.6	4450.0	4139.1	3637.4	2439.7
30°	5785.9	5764.5	5608.2	5522.7	5410.8	5409.1	5114.7	4965.0	4662.3	4168.7	2698.0
32.5°	6128.1	6034.3	5976.7	5917.5	5827.0	5851.7	5603.3	5524.3	5220.0	4662.3	3002.3
35°	6356.7	6289.3	6254.7	6164.3	6137.9	6248.2	6144.5	6111.6	5861.6	5356.5	3359.3
37.5°	6429.1	6450.5	6443.9	6330.4	6386.3	6684.1	6817.4	6731.8	6600.2	6088.6	3745.9
40°	6493.3	6508.1	6475.2	6608.4	6768.0	7106.9	7588.9	7447.5	7398.1	6830.5	4283.9
42.5°	6529.5	6518.0	6518.0	6748.3	6990.1	7671.2	8334.2	8240.4	8202.6	7620.2	4905.7
45°	6373.2	6261.3	6381.4	6694.0	7180.9	7949.2	8929.7	9059.7	9005.4	8559.6	5632.9
47.5°	5789.2	5858.3	5925.7	6343.6	6949.0	7863.7	9294.9	9737.5	9837.8	9349.2	6110.0
50°	4905.7	4890.9	5030.8	5557.2	6292.6	7495.2	9224.2	9933.2	10115.8	9586.1	6210.3
52.5°	3568.3	3676.8	3828.2	4351.3	5223.3	6541.0	8311.1	9428.2	9671.7	9294.9	6144.5
55°	2077.8	1957.7	2298.2	2740.8	3563.3	4933.7	7026.3	8357.2	8808.0	8765.2	5812.2
57.5°	832.4	806.1	922.9	1243.7	1859.0	3058.3	5109.7	6866.7	7588.9	8028.2	5108.1
60°	365.2	357.0	419.5	506.7	760.0	1409.9	2795.1	4270.7	5024.2	5609.9	3515.6
62.5°	263.2	259.9	291.2	322.4	401.4	613.6	1174.6	1720.8	2145.2	2591.1	1574.4
65°	212.2	220.4	241.8	258.3	296.1	340.5	414.6	478.7	587.3	608.7	347.1
67.5°	172.7	179.3	199.1	217.2	223.7	184.3	190.8	167.8	167.8	149.7	120.1
70°	126.7	128.3	151.4	172.7	138.2	74.0	130.0	130.0	116.8	111.9	102.0
72.5°	93.8	95.4	113.5	106.9	54.3	46.1	95.4	105.3	95.4	90.5	82.3
75°	69.1	70.7	59.2	24.7	23.0	29.6	55.9	72.4	69.1	67.4	62.5
77.5°	13.2	9.9	8.2	11.5	16.5	24.7	36.2	44.4	46.1	49.4	46.1
80°	1.6	1.6	4.9	9.9	18.1	26.3	37.8	42.8	44.4	46.1	42.8
82.5°	0.0	1.6	4.9	9.9	18.1	24.7	32.9	37.8	41.1	42.8	41.1
85°	0.0	1.6	3.3	8.2	14.8	18.1	16.5	11.5	9.9	11.5	8.2
87.5°	0.0	0.0	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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°	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4	1036.4
2.5°	1049.6	1043.0	1020.0	995.3	973.9	983.8	973.9	965.7	969.0	965.7	962.4
5°	1107.2	1077.6	1028.2	1006.8	988.7	987.1	982.1	980.5	982.1	982.1	967.3
7.5°	1161.5	1113.7	1061.1	1038.1	1016.7	1018.3	1006.8	1006.8	1005.2	996.9	993.7
10°	1243.7	1179.5	1112.1	1071.0	1044.7	1039.7	1028.2	1016.7	1016.7	1016.7	1000.2
12.5°	1334.2	1253.6	1161.5	1113.7	1082.5	1057.8	1039.7	1036.4	1018.3	1015.0	1006.8
15°	1413.2	1311.2	1194.4	1128.6	1089.1	1056.2	1028.2	1010.1	1001.9	996.9	990.4
17.5°	1490.5	1360.5	1212.5	1128.6	1085.8	1047.9	1018.3	1001.9	982.1	985.4	972.3
20°	1594.1	1413.2	1217.4	1107.2	1054.5	1018.3	978.8	970.6	959.1	949.2	952.5
22.5°	1694.5	1451.0	1202.6	1080.8	1005.2	962.4	942.7	932.8	927.8	919.6	908.1
25°	1785.0	1492.1	1179.5	1033.1	952.5	921.3	903.2	901.5	890.0	890.0	868.6
27.5°	1877.1	1506.9	1140.1	977.2	906.5	888.4	880.1	876.8	871.9	860.4	845.6
30°	1982.4	1511.9	1082.5	919.6	865.3	845.6	857.1	865.3	843.9	822.6	829.1
32.5°	2069.6	1500.3	1013.4	865.3	835.7	825.8	848.9	857.1	832.4	809.4	797.9
35°	2174.8	1472.4	945.9	822.6	806.1	825.8	845.6	845.6	796.2	768.3	761.7
37.5°	2334.4	1441.1	883.4	786.4	774.9	816.0	842.3	824.2	746.9	712.3	704.1
40°	2505.5	1421.4	822.6	750.2	758.4	799.5	814.3	758.4	679.4	658.0	651.5
42.5°	2753.9	1381.9	768.3	718.9	743.6	776.5	776.5	676.1	646.5	635.0	633.4
45°	3063.2	1353.9	720.6	692.6	722.2	730.4	704.1	633.4	612.0	608.7	610.3
47.5°	3214.6	1299.6	671.2	661.3	682.7	684.4	615.3	598.8	580.7	575.8	572.5
50°	3191.5	1202.6	607.0	620.2	649.8	633.4	561.0	564.3	547.8	546.2	538.0
52.5°	3030.3	1049.6	542.9	574.1	607.0	559.3	516.6	513.3	513.3	491.9	483.7
55°	2686.5	845.6	465.6	505.1	544.5	470.5	459.0	455.7	447.5	427.7	422.8
57.5°	2127.1	620.2	350.4	393.2	462.3	399.8	398.1	383.3	361.9	347.1	347.1
60°	1265.1	357.0	220.4	240.2	306.0	324.1	360.3	353.7	317.5	294.5	287.9
62.5°	577.4	184.3	139.8	143.1	164.5	210.6	283.0	327.4	276.4	236.9	233.6
65°	194.1	136.5	115.2	110.2	113.5	126.7	169.4	232.0	220.4	182.6	176.0
67.5°	118.4	121.7	108.6	100.4	100.4	98.7	97.1	105.3	130.0	126.7	128.3
70°	102.0	111.9	100.4	90.5	87.2	82.3	69.1	57.6	49.4	57.6	60.9
72.5°	82.3	88.8	85.5	77.3	69.1	62.5	49.4	37.8	28.0	24.7	24.7
75°	60.9	65.8	69.1	59.2	52.6	44.4	36.2	24.7	14.8	9.9	9.9
77.5°	44.4	49.4	51.0	46.1	39.5	31.3	23.0	16.5	8.2	3.3	3.3
80°	37.8	44.4	49.4	46.1	41.1	29.6	21.4	11.5	6.6	1.6	1.6
82.5°	36.2	44.4	49.4	44.4	39.5	28.0	21.4	13.2	4.9	1.6	1.6
85°	8.2	11.5	14.8	18.1	21.4	21.4	16.5	9.9	4.9	1.6	1.6
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6	1.6	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)