

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: P529073

Luminaire Tested: **GALN-SA4B-722-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529073
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-722-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 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: 10944 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

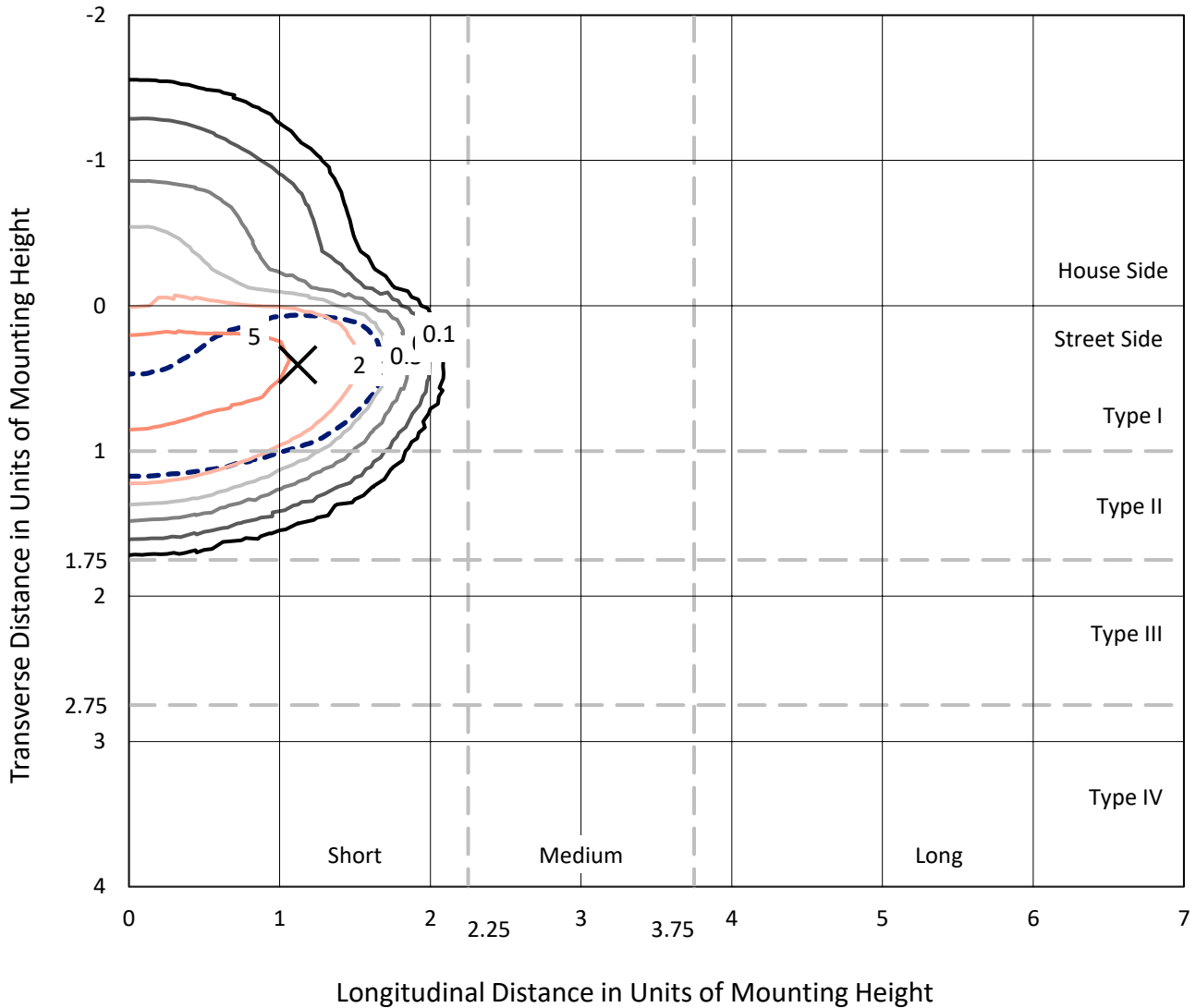
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

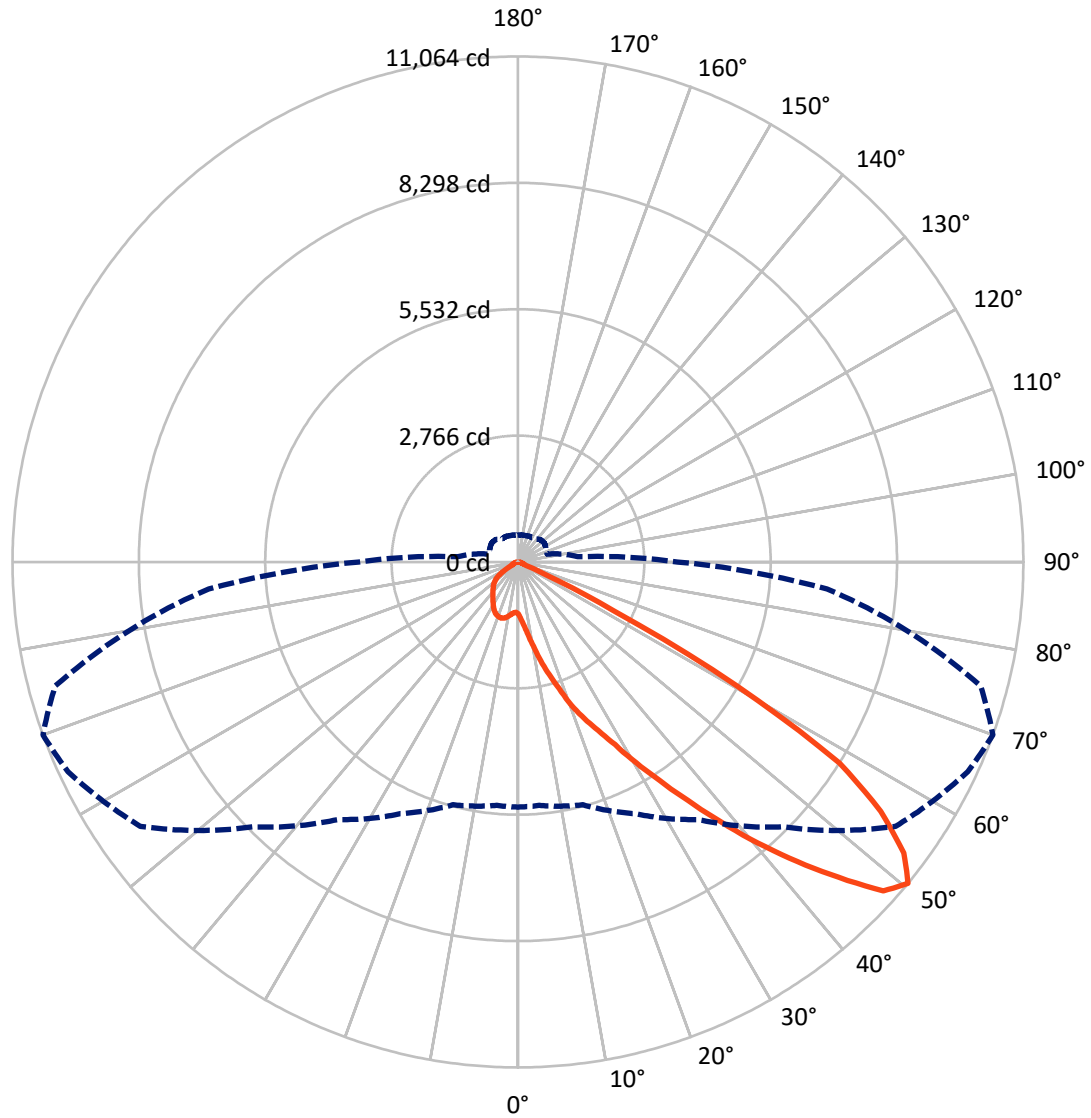
✕ Max cd
 - - - 1/2 Max cd



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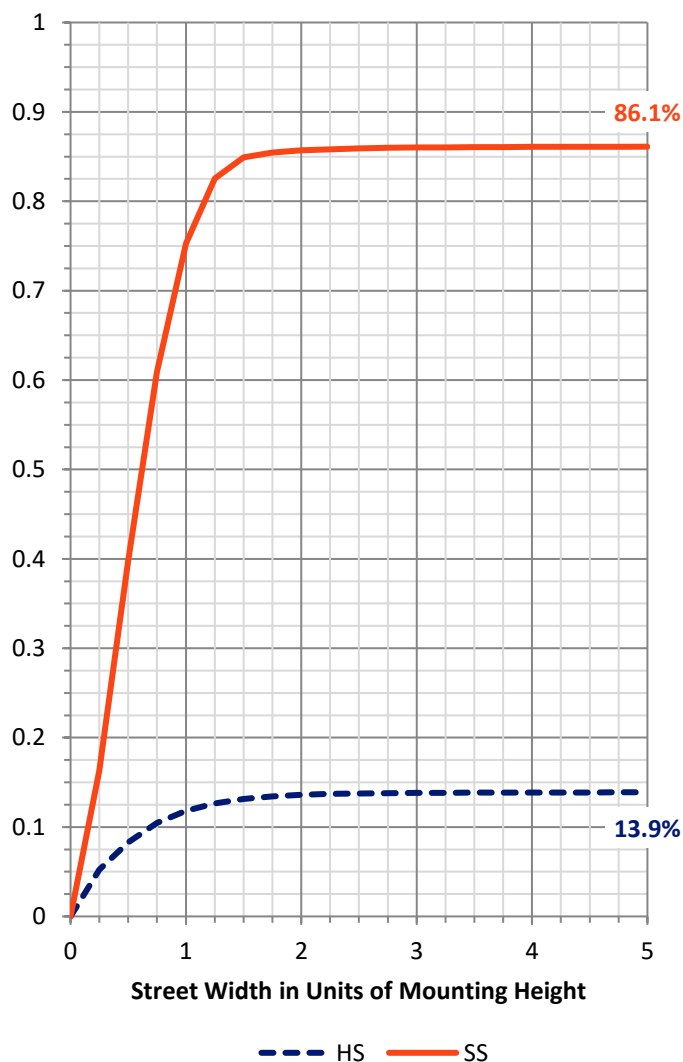
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1528.4	0.0	1528.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9415.6	0.0	9415.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	10944.0	0.0	10944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.3
10°-20°	637.6	5.8
20°-30°	1337.6	12.2
30°-40°	2305.6	21.1
40°-50°	3369.7	30.8
50°-60°	2624.4	24.0
60°-70°	444.7	4.1
70°-80°	61.1	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°	10944.0	100.0
0°-180°	10944.0	100.0

Coefficient of Utilization



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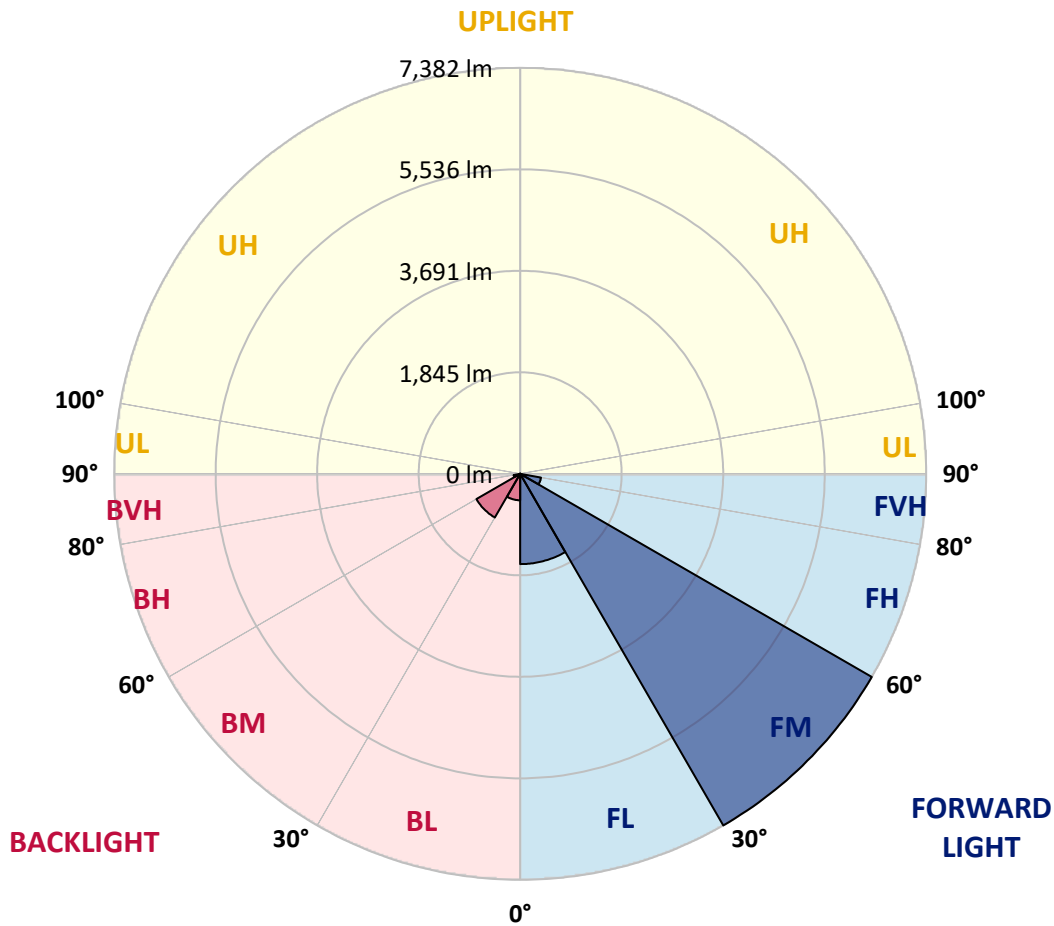
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.7	15.0			
FM (30°-60°)	7381.5	67.4			
FH (60°-80°)	385.0	3.5			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	481.0	4.4	B1/500		
BM (30°-60°)	918.2	8.4	B1/1000		
BH (60°-80°)	120.7	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°	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6
2.5°	1484.5	1473.7	1450.3	1407.1	1389.1	1345.9	1320.7	1272.1	1241.5	1207.4	1169.6
5°	2090.8	2035.1	2000.9	1952.3	1810.1	1722.0	1576.2	1452.1	1394.5	1331.5	1245.1
7.5°	2717.0	2681.0	2634.2	2529.9	2432.7	2249.2	1999.1	1725.6	1608.6	1500.6	1329.7
10°	3235.2	3134.4	3129.0	3051.7	2945.5	2726.0	2425.5	2085.4	1876.7	1718.4	1450.3
12.5°	3596.9	3505.1	3546.5	3537.5	3438.5	3237.0	2889.7	2439.9	2222.2	1975.7	1574.4
15°	3926.2	3888.4	3875.8	3865.0	3825.4	3676.0	3364.8	2871.7	2556.9	2260.0	1714.8
17.5°	4248.2	4151.1	4197.9	4206.9	4203.3	4068.3	3776.8	3282.0	2911.3	2560.5	1862.3
20°	4534.3	4543.3	4480.4	4467.8	4457.0	4451.6	4167.3	3688.6	3346.8	2875.3	2054.8
22.5°	4901.4	4838.4	4894.2	4858.2	4788.0	4744.9	4527.1	4048.5	3724.6	3255.0	2251.0
25°	5335.0	5385.4	5254.1	5239.7	5162.3	5013.0	4816.8	4451.6	4088.1	3607.7	2463.3
27.5°	5869.4	5781.3	5747.1	5667.9	5527.6	5464.6	5234.3	4867.2	4527.1	3978.3	2668.4
30°	6328.3	6304.9	6133.9	6040.4	5918.0	5916.2	5594.1	5430.4	5099.3	4559.5	2950.9
32.5°	6702.5	6600.0	6537.0	6472.2	6373.3	6400.2	6128.5	6042.2	5709.3	5099.3	3283.8
35°	6952.6	6878.9	6841.1	6742.1	6713.3	6833.9	6720.5	6684.5	6411.0	5858.6	3674.2
37.5°	7031.8	7055.2	7048.0	6923.9	6985.0	7310.7	7456.5	7362.9	7218.9	6659.3	4097.1
40°	7102.0	7118.2	7082.2	7227.9	7402.5	7773.1	8300.3	8145.6	8091.6	7470.9	4685.5
42.5°	7141.6	7129.0	7129.0	7380.9	7645.4	8390.3	9115.4	9012.9	8971.5	8334.5	5365.6
45°	6970.6	6848.3	6979.6	7321.5	7854.1	8694.4	9766.8	9909.0	9849.6	9362.0	6160.9
47.5°	6331.9	6407.4	6481.2	6938.2	7600.4	8600.8	10166.3	10650.3	10760.0	10225.6	6682.7
50°	5365.6	5349.4	5502.4	6078.2	6882.5	8197.8	10088.9	10864.4	11064.1	10484.7	6792.5
52.5°	3902.8	4021.5	4187.1	4759.2	5712.9	7154.2	9090.3	10312.0	10578.3	10166.3	6720.5
55°	2272.6	2141.2	2513.7	2997.7	3897.4	5396.2	7685.0	9140.6	9633.7	9586.9	6357.1
57.5°	910.5	881.7	1009.4	1360.3	2033.3	3345.0	5588.7	7510.4	8300.3	8780.8	5586.9
60°	399.5	390.5	458.8	554.2	831.3	1542.0	3057.1	4671.1	5495.2	6135.7	3845.2
62.5°	287.9	284.3	318.5	352.7	439.0	671.2	1284.7	1882.1	2346.3	2834.0	1722.0
65°	232.1	241.1	264.5	282.5	323.9	372.5	453.4	523.6	642.4	665.8	379.7
67.5°	188.9	196.1	217.7	237.5	244.7	201.5	208.7	183.5	183.5	163.7	131.4
70°	138.5	140.3	165.5	188.9	151.1	81.0	142.1	142.1	127.8	122.4	111.6
72.5°	102.6	104.4	124.2	117.0	59.4	50.4	104.4	115.2	104.4	99.0	90.0
75°	75.6	77.4	64.8	27.0	25.2	32.4	61.2	79.2	75.6	73.8	68.4
77.5°	14.4	10.8	9.0	12.6	18.0	27.0	39.6	48.6	50.4	54.0	50.4
80°	1.8	1.8	5.4	10.8	19.8	28.8	41.4	46.8	48.6	50.4	46.8
82.5°	0.0	1.8	5.4	10.8	19.8	27.0	36.0	41.4	45.0	46.8	45.0
85°	0.0	1.8	3.6	9.0	16.2	19.8	18.0	12.6	10.8	12.6	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°	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6
2.5°	1148.0	1140.8	1115.6	1088.6	1065.2	1076.0	1065.2	1056.2	1059.8	1056.2	1052.6
5°	1211.0	1178.6	1124.6	1101.2	1081.4	1079.6	1074.2	1072.4	1074.2	1074.2	1058.0
7.5°	1270.3	1218.2	1160.6	1135.4	1112.0	1113.8	1101.2	1101.2	1099.4	1090.4	1086.8
10°	1360.3	1290.1	1216.4	1171.4	1142.6	1137.2	1124.6	1112.0	1112.0	1112.0	1094.0
12.5°	1459.3	1371.1	1270.3	1218.2	1184.0	1157.0	1137.2	1133.6	1113.8	1110.2	1101.2
15°	1545.6	1434.1	1306.3	1234.3	1191.2	1155.2	1124.6	1104.8	1095.8	1090.4	1083.2
17.5°	1630.2	1488.1	1326.1	1234.3	1187.6	1146.2	1113.8	1095.8	1074.2	1077.8	1063.4
20°	1743.6	1545.6	1331.5	1211.0	1153.4	1113.8	1070.6	1061.6	1049.0	1038.2	1041.8
22.5°	1853.3	1587.0	1315.3	1182.2	1099.4	1052.6	1031.0	1020.2	1014.8	1005.8	993.2
25°	1952.3	1632.0	1290.1	1130.0	1041.8	1007.6	987.8	986.0	973.4	973.4	950.1
27.5°	2053.0	1648.2	1246.9	1068.8	991.4	971.6	962.6	959.0	953.6	941.1	924.9
30°	2168.2	1653.6	1184.0	1005.8	946.5	924.9	937.5	946.5	923.1	899.7	906.9
32.5°	2263.6	1641.0	1108.4	946.5	914.1	903.3	928.5	937.5	910.5	885.3	872.7
35°	2378.7	1610.4	1034.6	899.7	881.7	903.3	924.9	924.9	870.9	840.3	833.1
37.5°	2553.3	1576.2	966.2	860.1	847.5	892.5	921.3	901.5	816.9	779.1	770.1
40°	2740.4	1554.6	899.7	820.5	829.5	874.5	890.7	829.5	743.1	719.7	712.5
42.5°	3012.1	1511.4	840.3	786.3	813.3	849.3	849.3	739.5	707.1	694.5	692.7
45°	3350.4	1480.9	788.1	757.5	789.9	798.9	770.1	692.7	669.4	665.8	667.6
47.5°	3515.9	1421.5	734.1	723.3	746.7	748.5	673.0	655.0	635.2	629.8	626.2
50°	3490.7	1315.3	664.0	678.4	710.7	692.7	613.6	617.2	599.2	597.4	588.4
52.5°	3314.4	1148.0	593.8	628.0	664.0	611.8	565.0	561.4	561.4	538.0	529.0
55°	2938.3	924.9	509.2	552.4	595.6	514.6	502.0	498.4	489.4	467.8	462.4
57.5°	2326.5	678.4	383.3	430.0	505.6	437.2	435.4	419.2	395.9	379.7	379.7
60°	1383.7	390.5	241.1	262.7	334.7	354.5	394.1	386.9	347.3	322.1	314.9
62.5°	631.6	201.5	152.9	156.5	179.9	230.3	309.5	358.1	302.3	259.1	255.5
65°	212.3	149.3	126.0	120.6	124.2	138.5	185.3	253.7	241.1	199.7	192.5
67.5°	129.6	133.2	118.8	109.8	109.8	108.0	106.2	115.2	142.1	138.5	140.3
70°	111.6	122.4	109.8	99.0	95.4	90.0	75.6	63.0	54.0	63.0	66.6
72.5°	90.0	97.2	93.6	84.6	75.6	68.4	54.0	41.4	30.6	27.0	27.0
75°	66.6	72.0	75.6	64.8	57.6	48.6	39.6	27.0	16.2	10.8	10.8
77.5°	48.6	54.0	55.8	50.4	43.2	34.2	25.2	18.0	9.0	3.6	3.6
80°	41.4	48.6	54.0	50.4	45.0	32.4	23.4	12.6	7.2	1.8	1.8
82.5°	39.6	48.6	54.0	48.6	43.2	30.6	23.4	14.4	5.4	1.8	1.8
85°	9.0	12.6	16.2	19.8	23.4	23.4	18.0	10.8	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)