

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: P534302

Luminaire Tested: **GALN-SA9D-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55699 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

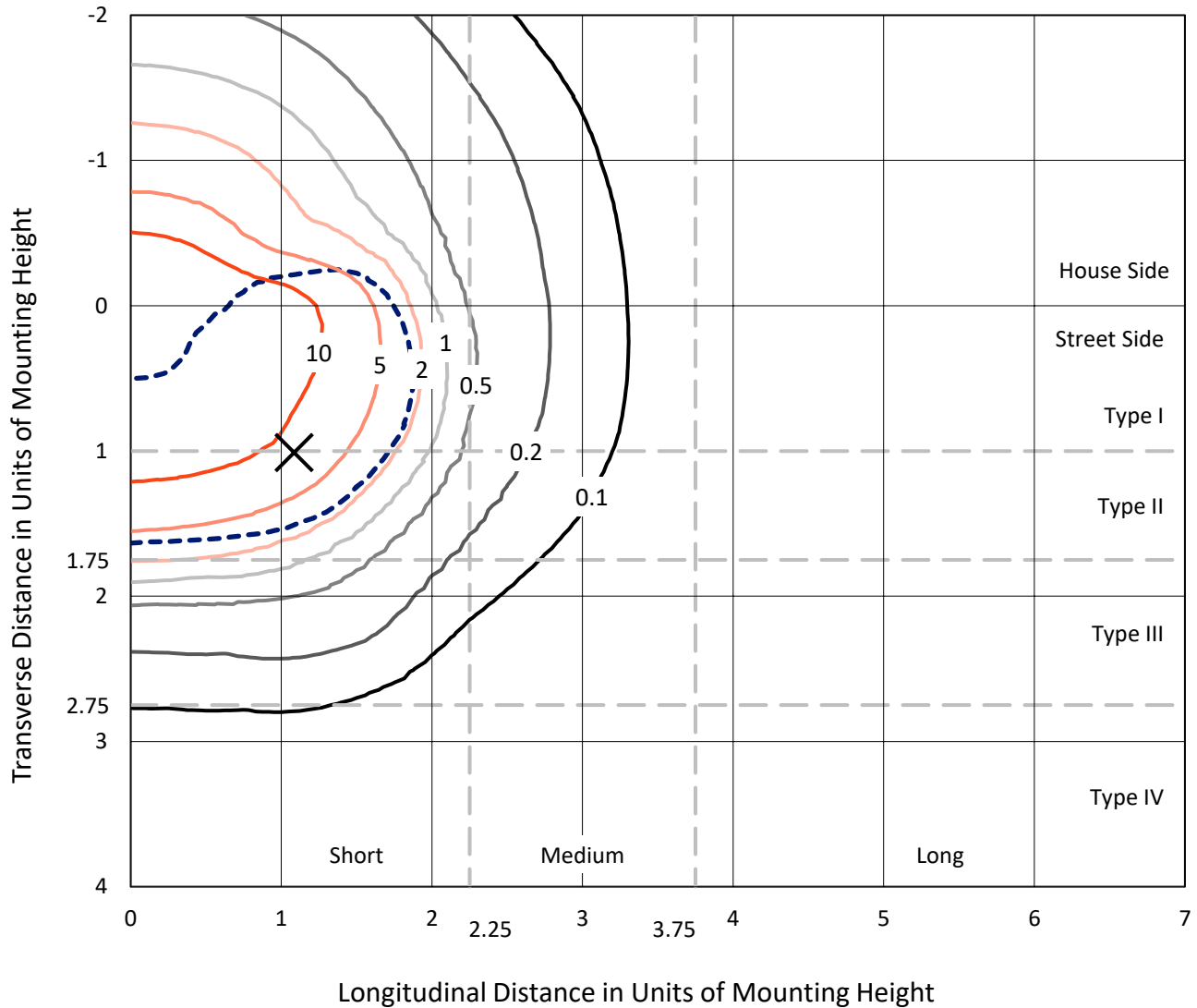
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534302
 CATALOG NUMBER: GALN-SA9D-735-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

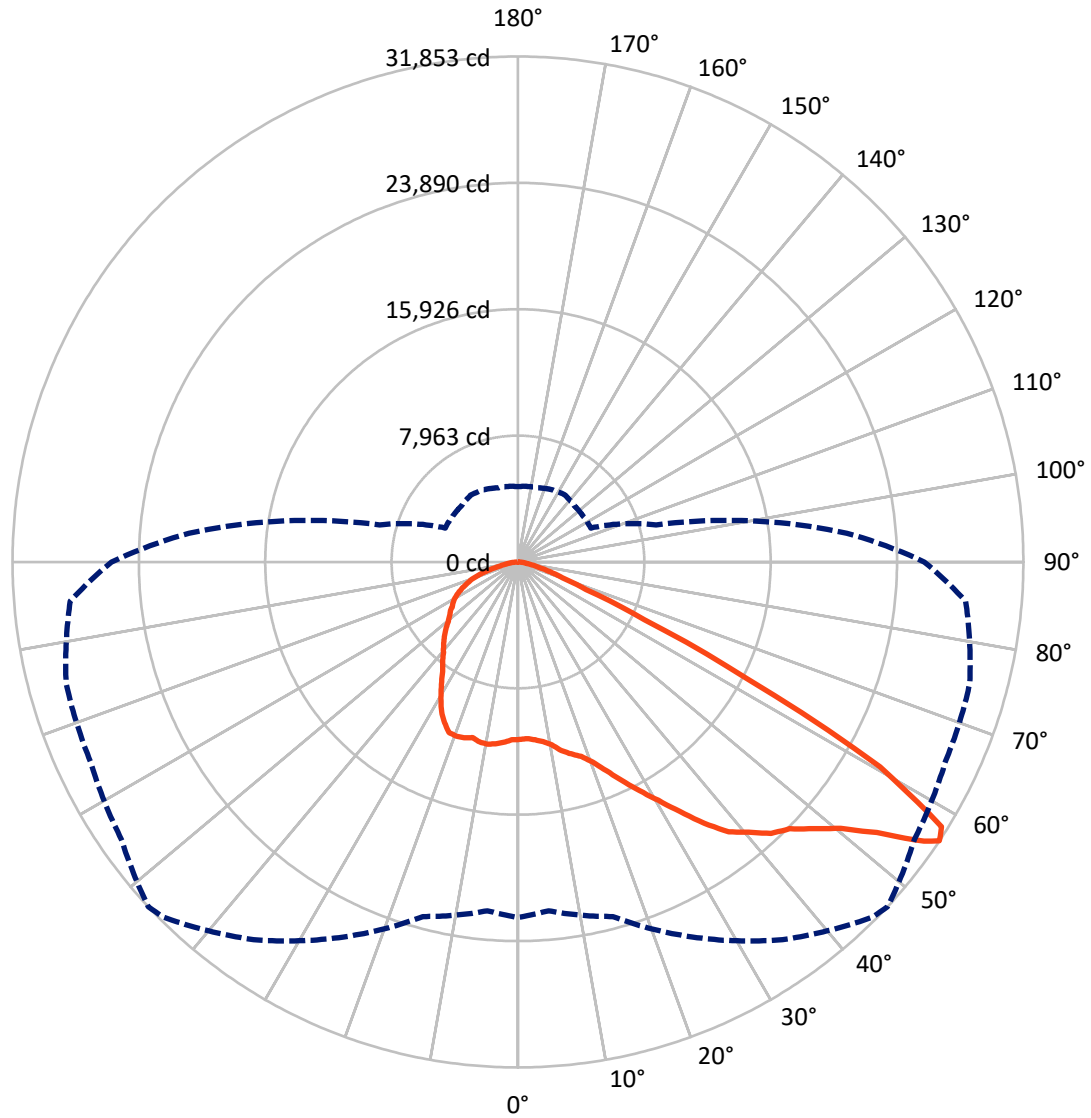
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

REPORT NUMBER: P534302
CATALOG NUMBER: GALN-SA9D-735-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



REPORT NUMBER: P534302
 CATALOG NUMBER: GALN-SA9D-735-U-T3-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17650.4	0.0	17650.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	38048.7	0.0	38048.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	55699.0	0.0	55699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1090.2	2.0
10°-20°	3438.8	6.2
20°-30°	6079.1	10.9
30°-40°	9130.5	16.4
40°-50°	12530.8	22.5
50°-60°	14928.8	26.8
60°-70°	6388.6	11.5
70°-80°	1808.0	3.2
80°-90°	304.2	0.5
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°	55699.0	100.0
0°-180°	55699.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534302

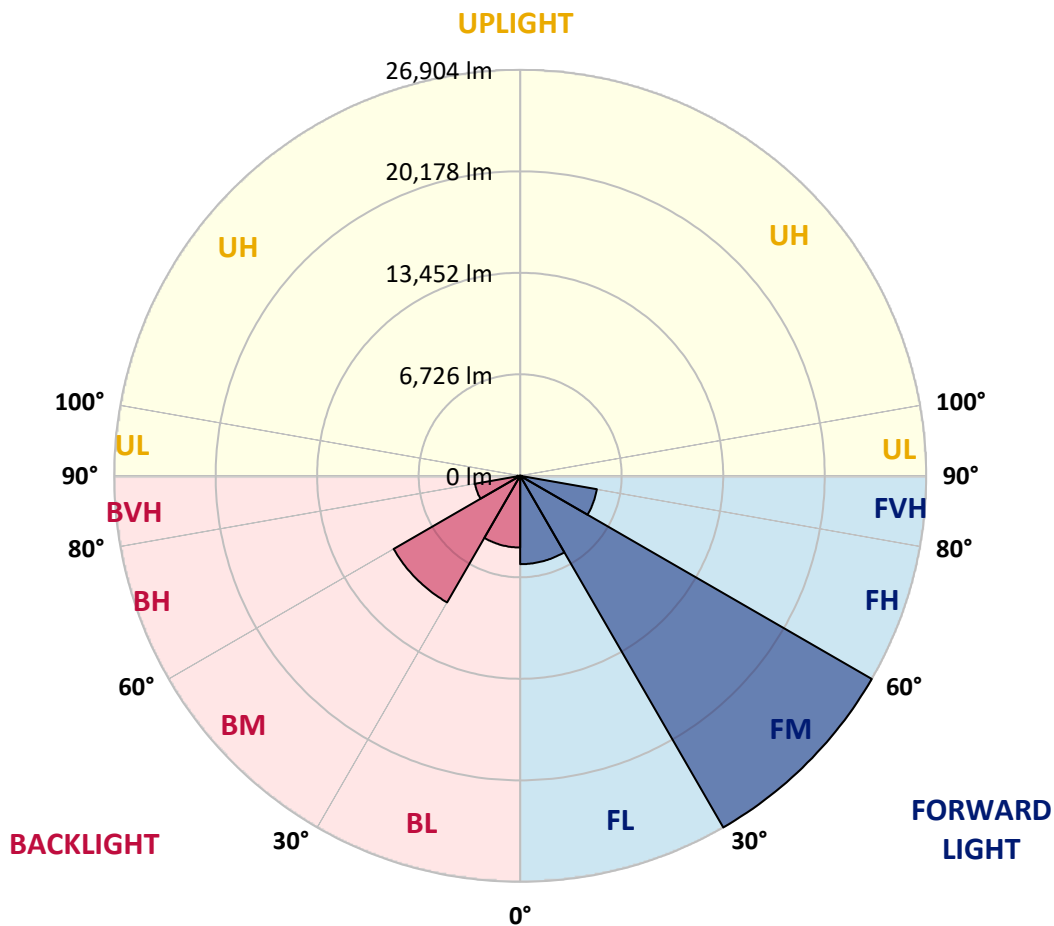
CATALOG NUMBER: GALN-SA9D-735-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5855.9	10.5			
FM (30°-60°)	26903.9	48.3			
FH (60°-80°)	5159.8	9.3			G3/7500
FVH (80°-90°)	129.1	0.2			G2/225
BL (0°-30°)	4752.2	8.5	B4/5000		
BM (30°-60°)	9686.2	17.4	B5		
BH (60°-80°)	3036.8	5.5	B4/5000		G4/5000
BVH (80°-90°)	175.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type II Short





REPORT NUMBER: P534302

CATALOG NUMBER: GALN-SA9D-735-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2
2.5°	11145.6	11124.3	11110.1	11223.8	11181.1	11188.2	11145.6	11188.2	11216.7	11152.7	11245.1
5°	11124.3	11188.2	11131.4	11166.9	11259.3	11230.9	11259.3	11344.5	11323.2	11301.9	11273.5
7.5°	11323.2	11330.3	11372.9	11387.1	11415.6	11387.1	11429.8	11507.9	11486.6	11365.8	11380.0
10°	11607.4	11621.6	11628.7	11706.8	11756.5	11763.6	11713.9	11642.9	11635.8	11799.2	11685.5
12.5°	11934.1	11898.6	11983.8	12012.3	12069.1	12133.0	12197.0	12047.8	12140.1	12147.2	12012.3
15°	12410.1	12445.6	12346.1	12346.1	12367.4	12374.5	12552.1	12481.1	12466.9	12388.8	12445.6
17.5°	13120.4	12878.9	12871.8	12772.3	12758.1	12815.0	12878.9	12935.7	13127.5	12971.3	12665.8
20°	13639.0	13695.8	13489.8	13369.1	13390.4	13518.2	13454.3	13710.0	13845.0	13589.3	13290.9
22.5°	14555.4	14363.6	14413.3	14143.4	14164.7	14299.6	14292.5	14555.4	14633.5	14228.6	13795.3
25°	15173.4	15123.7	15166.3	14953.2	14981.6	15088.1	15258.6	15691.9	15564.1	15116.6	14114.9
27.5°	16075.5	15976.1	15940.6	15862.4	15834.0	16118.2	16317.1	16778.8	16686.5	16032.9	14683.2
30°	16999.0	16935.1	16970.6	16650.9	16764.6	17368.4	17425.2	18057.5	18014.8	16864.0	15315.5
32.5°	17638.3	17673.9	17737.8	17560.2	18064.6	18547.6	18739.4	19456.9	19492.4	18291.9	16537.3
35°	18668.4	18547.6	18583.1	18789.1	19023.6	19904.4	20217.0	20692.9	20991.3	19790.7	17709.4
37.5°	19314.8	19442.7	19293.5	19620.3	20231.2	21289.6	21573.8	22063.9	22376.5	21268.3	19307.7
40°	20323.5	20117.5	20224.1	20458.5	21083.6	22461.7	22383.6	22887.9	22987.4	22525.7	20799.5
42.5°	21410.4	21310.9	21161.8	21694.5	22220.2	23221.8	23378.1	23143.7	23648.0	23754.6	22930.6
45°	22710.3	22831.1	22852.4	22866.6	23328.4	24202.1	23989.0	23783.0	24365.5	25139.8	24251.8
47.5°	23918.0	23534.4	23811.4	24195.0	24848.5	24855.6	25104.3	24614.1	25232.1	25921.2	25445.2
50°	24322.9	24138.2	24507.6	25232.1	26240.9	26347.4	26375.8	25679.7	25999.3	26546.3	25857.3
52.5°	24166.6	24102.7	25047.4	26169.8	27647.4	28187.3	28329.3	27469.8	27647.4	27398.7	26766.5
55°	23420.7	23612.5	24564.4	26851.8	29117.8	30787.2	31057.1	29970.3	28840.8	29032.6	28336.4
56°	22397.8	22063.9	23129.5	26077.5	29053.9	31632.5	31852.7	30495.9	29728.7	29480.1	28322.2
57.5°	19002.2	18568.9	19968.3	23463.3	27441.4	31312.9	31476.2	30716.1	29579.6	29075.2	26255.1
60°	11124.3	11337.4	13113.3	16182.1	21168.9	25672.6	26219.5	26773.6	26013.5	23754.6	19542.1
62.5°	5370.4	5235.4	6506.9	9277.4	12900.2	16388.1	16224.7	17780.4	18632.9	16878.3	12339.0
65°	2813.0	2798.8	3551.8	5064.9	7089.4	8609.6	8758.8	9597.0	10769.1	8694.9	6265.4
67.5°	2067.2	2124.0	2500.5	3558.9	4560.5	4652.9	4631.6	5050.7	5164.3	4368.7	3850.2
70°	1619.6	1648.0	1925.1	2706.5	3395.5	3040.4	2976.4	3026.2	3360.0	3502.1	3331.6
72.5°	1172.1	1200.5	1434.9	1825.6	2124.0	2074.3	2116.9	2393.9	2805.9	2955.1	2777.5
75°	781.4	802.7	930.6	1115.3	1257.3	1356.8	1434.9	1754.6	2138.2	2223.4	2138.2
77.5°	539.9	561.2	646.4	788.5	802.7	866.6	895.1	1044.2	1278.7	1385.2	1328.4
80°	305.5	305.5	348.1	404.9	497.3	582.5	596.7	717.5	824.0	895.1	909.3
82.5°	142.1	149.2	184.7	248.6	326.8	404.9	419.1	497.3	575.4	646.4	667.7
85°	71.0	78.1	106.6	149.2	198.9	241.5	234.4	241.5	255.7	241.5	248.6
87.5°	21.3	21.3	28.4	35.5	28.4	35.5	35.5	42.6	49.7	56.8	63.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P534302

CATALOG NUMBER: GALN-SA9D-735-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2	11188.2
2.5°	11252.2	11273.5	11131.4	11266.4	11216.7	11209.5	11309.0	11294.8	11330.3	11316.1	11230.9
5°	11259.3	11209.5	11358.7	11223.8	11287.7	11422.7	11330.3	11543.4	11436.9	11507.9	11351.6
7.5°	11479.5	11493.7	11465.3	11522.1	11493.7	11557.6	11507.9	11557.6	11472.4	11479.5	11621.6
10°	11671.3	11628.7	11678.4	11607.4	11657.1	11635.8	11522.1	11486.6	11515.0	11479.5	11571.8
12.5°	12026.5	11948.3	11912.8	11827.6	11770.7	11557.6	11380.0	11280.6	11415.6	11436.9	11394.2
15°	12388.8	12395.9	12232.5	12040.7	11685.5	11365.8	11408.4	11444.0	11444.0	11500.8	11394.2
17.5°	12616.1	12616.1	12466.9	12083.3	11721.0	11536.3	11493.7	11380.0	11280.6	11266.4	11259.3
20°	13013.9	12893.1	12552.1	12076.2	11706.8	11621.6	11301.9	11032.0	10826.0	10754.9	10747.8
22.5°	13468.5	13163.0	12687.1	12090.4	11685.5	11564.7	10968.0	10563.1	10193.7	10037.4	10058.8
25°	13887.6	13397.5	12765.2	12026.5	11607.4	11024.9	10357.1	9795.9	9412.3	9284.5	9220.5
27.5°	14178.9	13646.1	12765.2	12083.3	11316.1	10421.0	9739.1	9021.6	8687.8	8602.5	8616.7
30°	14569.6	13958.7	12985.5	11962.5	10733.6	9639.6	8822.7	8353.9	8155.0	8083.9	8133.7
32.5°	15485.9	14775.6	13290.9	11671.3	10044.6	8858.2	8197.6	7934.8	7643.5	7501.4	7451.7
35°	16480.5	15549.9	13589.3	11181.1	9270.3	8147.9	7735.9	7494.3	7146.3	6990.0	7018.4
37.5°	17887.0	16544.4	13610.6	10371.3	8432.0	7750.1	7373.6	6997.1	6712.9	6471.4	6400.4
40°	19783.6	17901.2	13560.9	9518.9	7757.2	7281.2	7004.2	6535.4	6215.7	6045.2	6080.7
42.5°	21453.0	19492.4	13354.8	8552.8	7146.3	6961.6	6649.0	6187.3	5874.7	5697.1	5682.9
45°	22859.5	20664.5	12964.1	7728.8	6634.8	6606.4	6244.1	5888.9	5640.3	5476.9	5547.9
47.5°	24159.5	21609.3	12374.5	6904.7	6166.0	6222.8	5874.7	5654.5	5498.2	5349.0	5341.9
50°	24628.3	21595.1	11856.0	6222.8	5789.5	5761.1	5746.8	5512.4	5349.0	5221.2	5278.0
52.5°	25409.7	21836.6	11294.8	5754.0	5448.5	5455.6	5505.3	5334.8	5150.1	5072.0	5143.0
55°	26532.1	21872.1	10058.8	5207.0	5164.3	5214.1	5214.1	5100.4	4944.1	4880.2	4844.7
56°	25615.7	20813.7	9021.6	5064.9	5022.3	5022.3	5157.2	5029.4	4837.6	4787.9	4745.2
57.5°	23626.7	18235.1	7551.2	4894.4	4830.5	4929.9	5001.0	4866.0	4688.4	4617.4	4660.0
60°	16295.8	12339.0	5675.8	4525.0	4525.0	4688.4	4745.2	4546.3	4468.2	4461.1	4404.3
62.5°	9511.8	7188.9	4439.8	4191.1	4205.4	4340.3	4382.9	4269.3	4169.8	4290.6	4347.4
65°	5043.6	4290.6	3807.6	3836.0	3843.1	3949.6	4134.3	4127.2	4120.1	4155.6	4162.7
67.5°	3651.3	3566.0	3459.5	3431.1	3445.3	3523.4	3708.1	3850.2	3843.1	3757.8	3693.9
70°	3253.5	3132.7	3068.8	3075.9	3019.0	3111.4	3260.6	3352.9	3189.5	3090.1	3047.5
72.5°	2706.5	2671.0	2628.3	2635.5	2521.8	2500.5	2330.0	2330.0	2287.4	2259.0	2308.7
75°	2067.2	2053.0	2074.3	2038.7	1918.0	1790.1	1690.7	1598.3	1456.2	1399.4	1371.0
77.5°	1307.1	1349.7	1399.4	1321.3	1271.6	1179.2	1079.8	987.4	873.7	809.8	809.8
80°	888.0	923.5	959.0	944.8	888.0	802.7	724.6	625.1	547.0	497.3	490.2
82.5°	674.8	703.3	753.0	696.2	639.3	568.3	504.4	433.3	362.3	305.5	305.5
85°	241.5	277.0	305.5	333.9	355.2	362.3	312.6	255.7	206.0	163.4	156.3
87.5°	63.9	71.0	78.1	71.0	71.0	71.0	78.1	71.0	63.9	49.7	49.7
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)