

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: P529163

Luminaire Tested: **GALN-SA4B-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16792 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

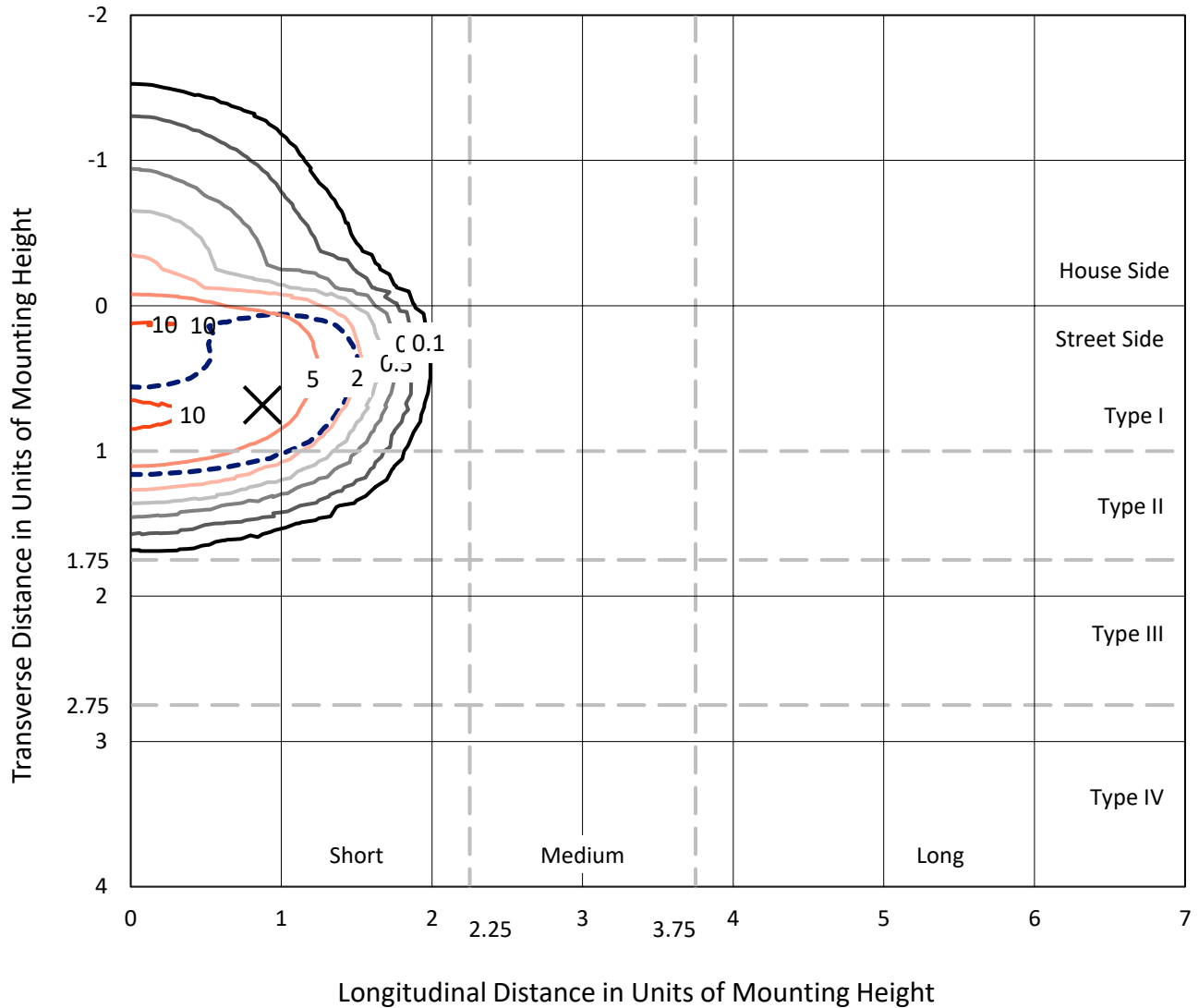
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

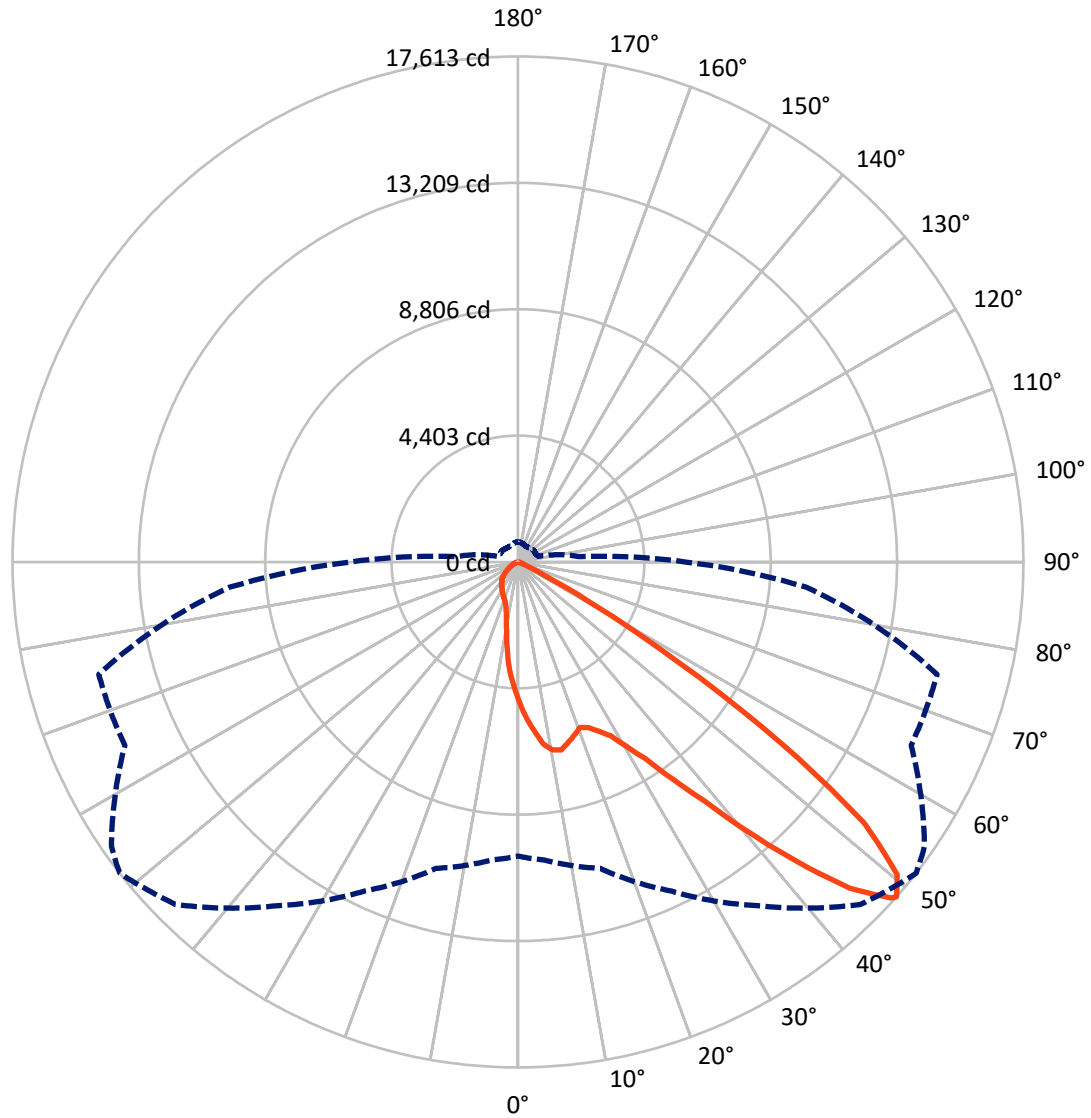
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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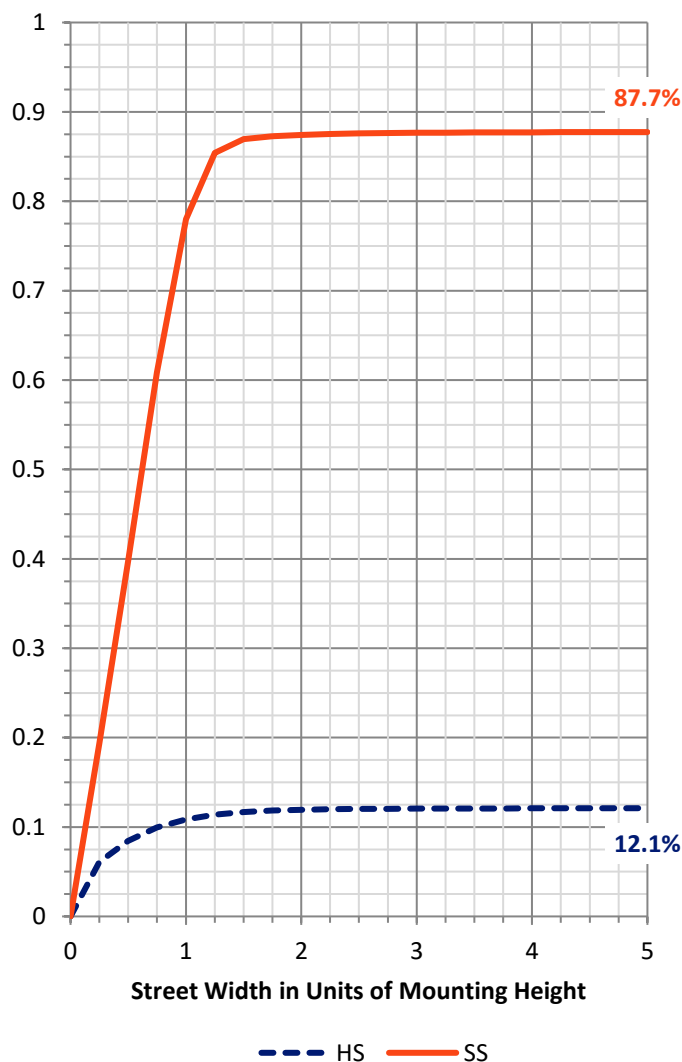
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2044.5	0.0	2044.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14747.4	0.0	14747.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	16792.0	0.0	16792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.8	2.6
10°-20°	1159.9	6.9
20°-30°	1980.5	11.8
30°-40°	3647.0	21.7
40°-50°	5663.8	33.7
50°-60°	3408.7	20.3
60°-70°	394.3	2.3
70°-80°	76.3	0.5
80°-90°	17.6	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°	16792.0	100.0
0°-180°	16792.0	100.0

Coefficient of Utilization



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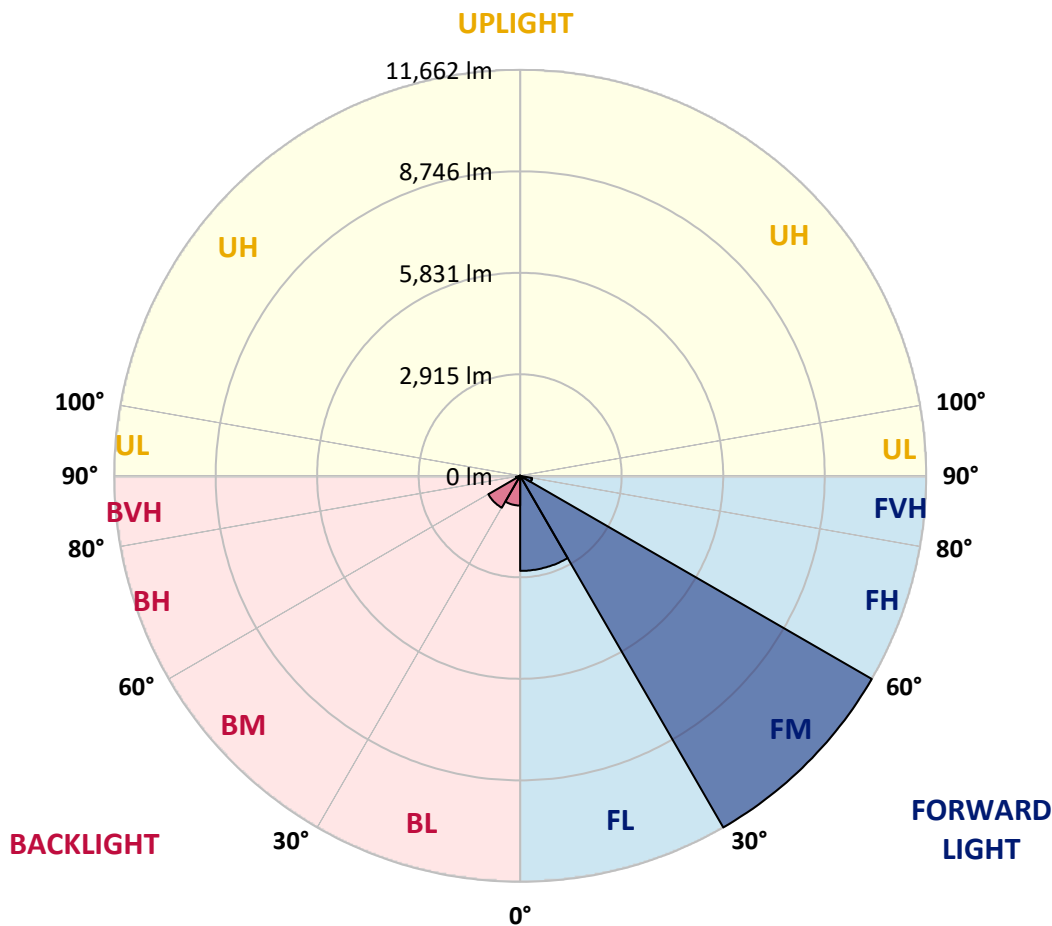
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.2	16.3			
FM (30°-60°)	11661.7	69.4			
FH (60°-80°)	347.2	2.1			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	854.1	5.1	B2/1000		
BM (30°-60°)	1057.8	6.3	B2/2500		
BH (60°-80°)	123.4	0.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3
2.5°	5877.4	5742.7	5755.0	5666.8	5615.4	5532.2	5419.6	5397.6	5275.2	5108.7	4939.8
5°	6406.1	6374.3	6415.9	6288.6	6293.5	6156.4	5892.0	5896.9	5615.4	5343.7	5081.8
7.5°	6440.4	6366.9	6408.6	6521.2	6587.2	6562.8	6413.4	6283.7	6016.9	5617.9	5236.0
10°	5767.2	5906.7	5950.8	6136.8	6401.2	6680.3	6663.1	6670.5	6447.7	5926.3	5368.2
12.5°	5363.3	5270.3	5419.6	5532.2	5931.2	6472.2	6719.4	6773.3	6790.4	6225.0	5500.4
15°	5179.7	5179.7	5204.2	5236.0	5524.9	6024.2	6528.5	6685.2	7054.8	6616.6	5708.5
17.5°	5294.8	5289.9	5324.1	5258.0	5365.8	5750.1	6352.2	6530.9	7351.0	7000.9	5872.5
20°	5644.8	5661.9	5639.9	5449.0	5456.3	5745.2	6156.4	6437.9	7551.7	7333.8	6090.3
22.5°	6131.9	6141.7	6016.9	5808.8	5747.6	5889.6	6269.0	6484.4	7713.3	7732.9	6156.4
25°	6695.0	6655.8	6631.3	6337.6	6151.5	6273.9	6523.6	6648.4	7813.6	8075.6	6344.9
27.5°	7475.8	7397.5	7248.2	6986.3	6849.2	6675.4	6854.1	7059.7	8100.0	8555.3	6550.5
30°	8628.8	8560.2	8268.9	7931.1	7571.3	7399.9	7456.2	7568.8	8616.5	9111.0	6822.2
32.5°	10364.3	10219.9	9798.9	9155.1	8665.5	8193.1	8178.4	8298.3	9079.2	9879.6	7145.4
35°	12276.1	12232.1	11612.7	10949.4	10002.0	9272.6	9284.8	9348.5	9965.3	10888.2	7568.8
37.5°	13546.6	13788.9	13394.8	12682.5	11886.9	10844.1	10579.7	10601.8	11181.9	12082.7	8332.6
40°	14528.2	14322.5	14369.1	14202.6	13659.2	12949.3	12364.2	12249.2	12589.4	13404.6	9091.4
42.5°	14099.8	14109.6	14396.0	14790.1	14924.7	14873.3	14276.0	14058.2	13793.8	14486.6	9813.6
45°	12890.5	13142.7	13514.7	14557.5	15473.1	16332.3	16214.8	15852.5	14626.1	15343.3	10229.7
47.5°	10961.6	10951.8	11561.3	12917.5	14951.7	16963.8	17497.4	17242.9	15216.0	15247.8	10144.0
48°	10249.3	10425.5	11054.6	12650.6	14621.2	16870.8	17612.5	17291.8	15115.7	15120.6	10070.6
50°	7576.2	7544.4	8327.7	10286.0	13059.4	15852.5	17127.8	17377.5	15113.2	14476.8	9556.5
52.5°	4002.3	4139.4	4709.7	6467.3	9233.4	12973.8	15108.3	15497.5	14579.6	13424.2	8817.3
55°	1701.3	1537.3	1975.4	2920.3	5194.4	8667.9	11084.0	11950.6	12327.5	11879.6	7713.3
57.5°	607.1	663.4	763.7	1099.1	2183.5	4744.0	6609.3	7282.4	8540.7	8716.9	5255.6
60°	389.2	396.6	428.4	504.3	820.0	1828.6	3135.7	3671.8	4242.2	4379.3	2452.8
62.5°	301.1	303.5	318.2	330.5	389.2	709.9	1177.4	1395.3	1449.1	1246.0	643.8
65°	252.1	254.6	259.5	259.5	276.6	332.9	411.2	452.9	440.6	435.7	364.7
67.5°	193.4	198.3	208.1	208.1	217.9	203.2	227.7	242.3	274.2	332.9	310.9
70°	151.8	154.2	161.6	166.5	166.5	146.9	164.0	178.7	200.7	247.2	244.8
72.5°	117.5	122.4	127.3	127.3	119.9	100.4	117.5	129.7	144.4	171.4	166.5
75°	90.6	90.6	93.0	75.9	58.7	51.4	71.0	85.7	107.7	112.6	93.0
77.5°	24.5	26.9	24.5	22.0	24.5	36.7	46.5	53.9	68.5	68.5	61.2
80°	0.0	2.4	7.3	14.7	24.5	34.3	41.6	46.5	53.9	58.7	56.3
82.5°	0.0	2.4	7.3	14.7	22.0	26.9	36.7	39.2	44.1	51.4	51.4
85°	0.0	2.4	4.9	9.8	14.7	17.1	17.1	14.7	14.7	12.2	9.8
87.5°	0.0	0.0	2.4	4.9	4.9	7.3	7.3	7.3	7.3	7.3	7.3
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°	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3	4849.3
2.5°	4873.7	4797.8	4682.8	4501.7	4327.9	4215.2	4107.5	3987.6	3921.5	3916.6	3879.9
5°	4932.5	4761.1	4487.0	4176.1	3843.2	3556.8	3267.9	3079.4	2910.5	2817.5	2800.4
7.5°	4964.3	4741.5	4298.5	3777.1	3209.2	2741.6	2418.5	2181.1	2088.0	2019.5	2017.1
10°	5030.4	4707.3	4017.0	3248.3	2545.8	2073.4	1850.6	1742.9	1691.5	1671.9	1642.5
12.5°	5079.4	4643.6	3728.1	2704.9	2012.2	1718.4	1620.5	1596.0	1598.5	1608.3	1596.0
15°	5147.9	4587.3	3338.9	2220.2	1689.0	1547.1	1547.1	1552.0	1586.2	1591.1	1588.7
17.5°	5143.0	4477.2	2937.5	1828.6	1493.2	1473.6	1481.0	1527.5	1549.5	1556.9	1539.7
20°	5201.7	4374.4	2523.8	1561.7	1383.1	1412.4	1461.4	1473.6	1500.6	1505.4	1485.9
22.5°	5184.6	4117.3	2139.4	1351.2	1299.8	1356.1	1405.1	1419.8	1412.4	1397.7	1395.3
25°	5152.8	3897.0	1787.0	1211.7	1238.6	1299.8	1346.3	1319.4	1304.7	1307.2	1309.6
27.5°	5096.5	3618.0	1495.7	1113.8	1155.4	1246.0	1243.5	1233.7	1248.4	1236.2	1248.4
30°	5086.7	3338.9	1255.8	1025.7	1094.2	1160.3	1165.2	1182.3	1199.5	1177.4	1199.5
32.5°	5101.4	3032.9	1084.4	971.8	1057.5	1059.9	1113.8	1130.9	1118.7	1069.7	1074.6
35°	5214.0	2797.9	959.6	942.4	998.7	1001.2	1052.6	1030.6	976.7	947.3	964.5
37.5°	5451.4	2602.1	900.8	915.5	920.4	952.2	954.7	910.6	915.5	913.1	922.9
40°	5755.0	2452.8	859.2	891.0	886.1	908.2	820.0	844.5	866.5	873.9	878.8
42.5°	5963.0	2345.1	832.3	851.9	842.1	802.9	753.9	778.4	795.6	822.5	827.4
45°	6056.1	2259.4	800.5	783.3	783.3	712.3	692.8	697.6	736.8	766.2	761.3
47.5°	5904.3	2176.2	744.2	692.8	709.9	651.1	629.1	629.1	670.7	707.4	700.1
48°	5845.5	2141.9	746.6	673.2	685.4	641.3	619.3	614.4	660.9	695.2	695.2
50°	5554.2	2014.6	683.0	619.3	594.8	589.9	575.3	580.1	609.5	641.3	641.3
52.5°	4986.3	1740.4	577.7	531.2	487.1	516.5	523.8	514.1	528.7	558.1	555.7
55°	4161.4	1336.5	462.6	440.6	406.3	438.2	452.9	440.6	425.9	448.0	448.0
57.5°	2665.7	719.7	369.6	374.5	340.3	372.1	384.3	354.9	328.0	345.2	342.7
60°	1201.9	430.8	303.5	296.2	274.2	310.9	330.5	296.2	259.5	271.7	284.0
62.5°	450.4	306.0	230.1	225.2	220.3	254.6	264.4	237.4	200.7	208.1	210.5
65°	330.5	269.3	183.6	166.5	176.2	200.7	195.8	168.9	144.4	144.4	149.3
67.5°	281.5	235.0	149.3	129.7	129.7	132.2	122.4	107.7	100.4	105.3	110.2
70°	220.3	186.0	117.5	100.4	90.6	80.8	71.0	68.5	61.2	68.5	66.1
72.5°	142.0	124.8	90.6	75.9	68.5	56.3	46.5	44.1	36.7	34.3	34.3
75°	75.9	75.9	71.0	61.2	53.9	44.1	36.7	29.4	19.6	14.7	14.7
77.5°	53.9	58.7	63.6	58.7	49.0	36.7	29.4	19.6	9.8	4.9	4.9
80°	51.4	58.7	63.6	56.3	49.0	36.7	26.9	14.7	7.3	2.4	2.4
82.5°	46.5	53.9	58.7	51.4	44.1	31.8	24.5	14.7	7.3	2.4	2.4
85°	9.8	12.2	14.7	14.7	17.1	22.0	17.1	12.2	4.9	2.4	2.4
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	4.9	4.9	2.4	2.4	2.4
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)