

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: P530559

Luminaire Tested: **GALN-SA5D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21948 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

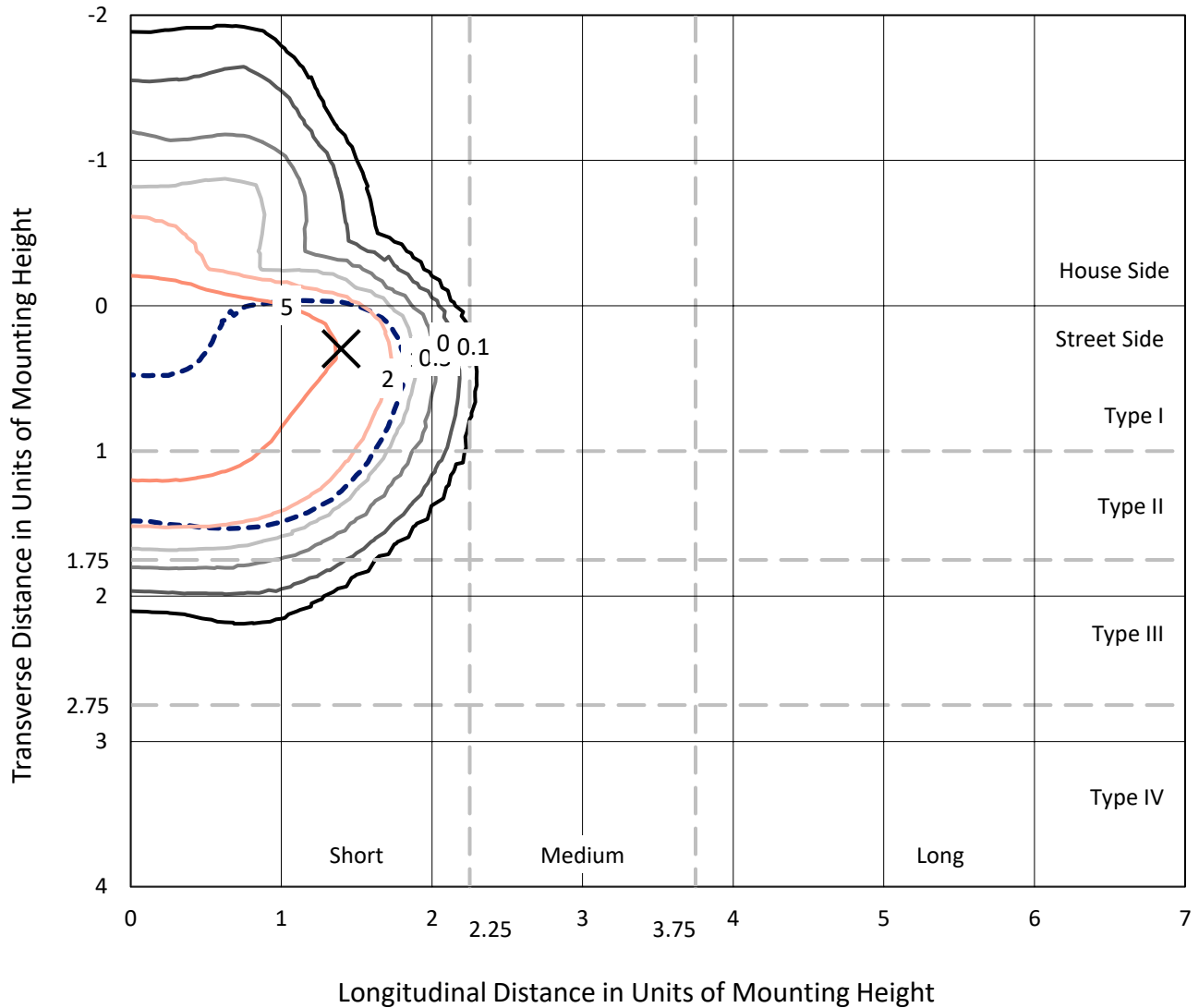
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

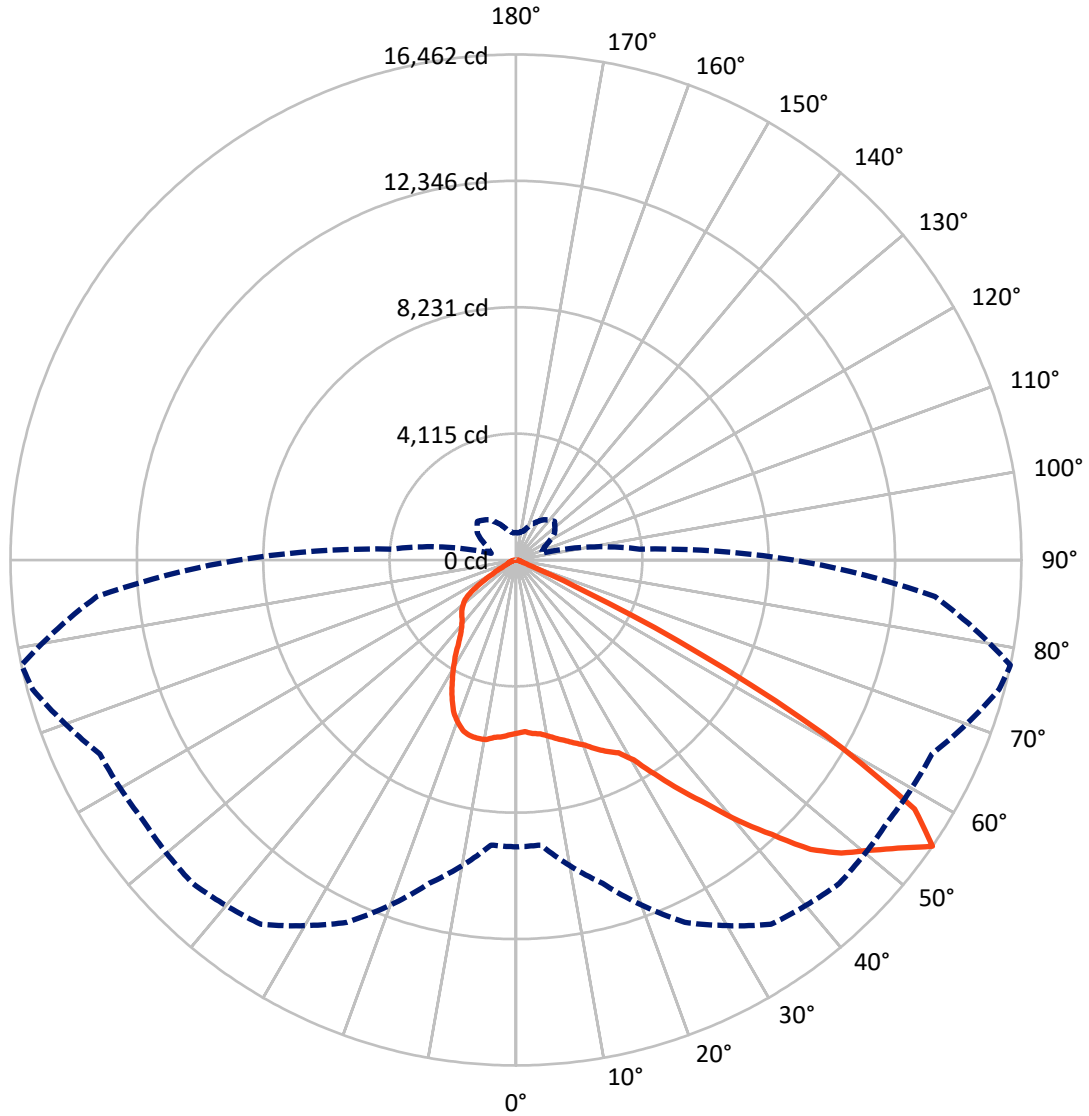
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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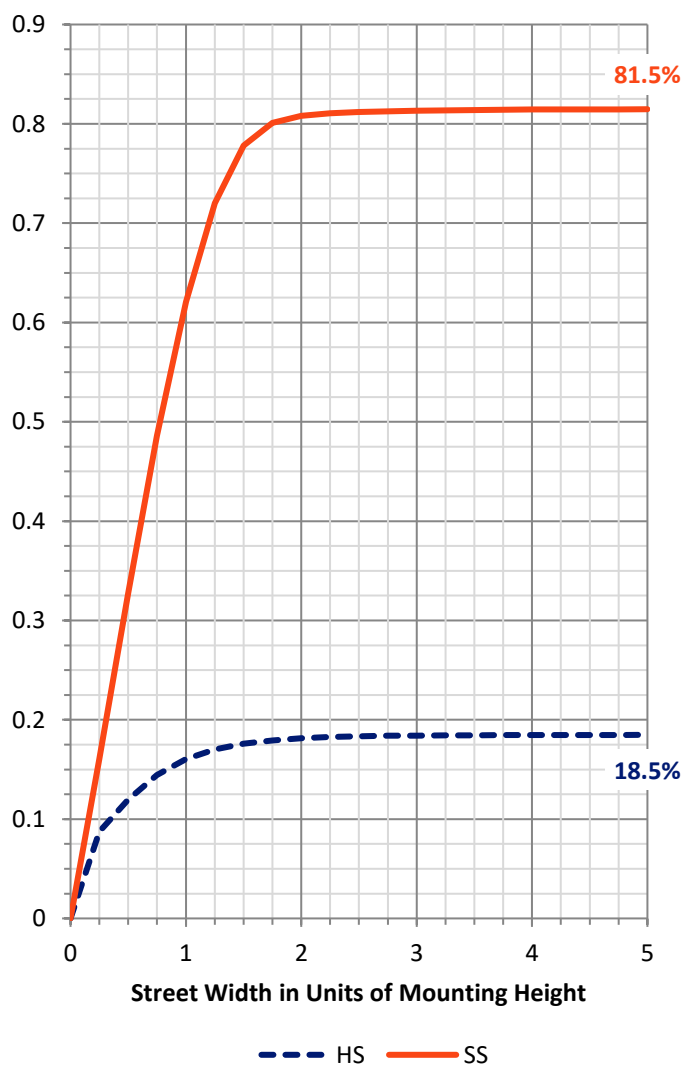
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4076.6	0.0	4076.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17871.4	0.0	17871.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	21948.0	0.0	21948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.2	2.3
10°-20°	1331.6	6.1
20°-30°	2334.1	10.6
30°-40°	3848.6	17.5
40°-50°	5600.3	25.5
50°-60°	6345.7	28.9
60°-70°	1814.3	8.3
70°-80°	140.9	0.6
80°-90°	29.3	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°	21948.0	100.0
0°-180°	21948.0	100.0

Coefficient of Utilization



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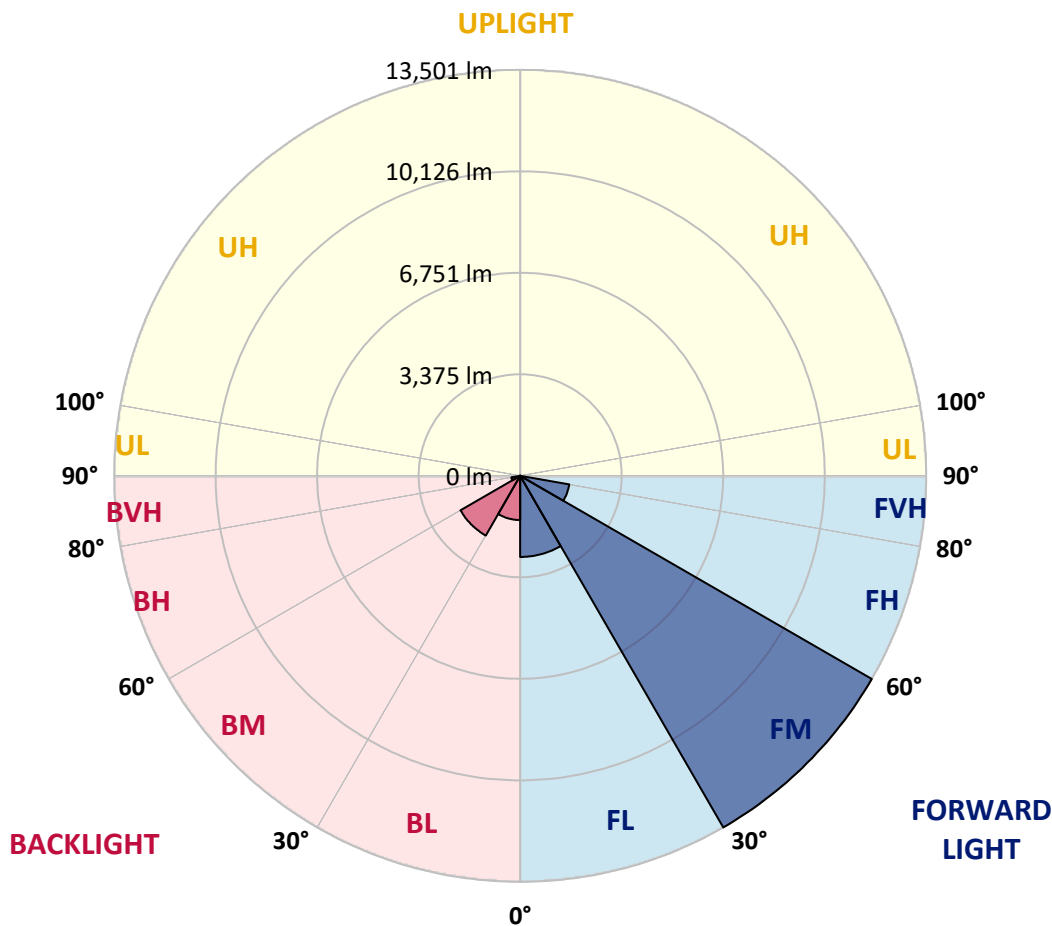
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2698.0	12.3			
FM (30°-60°)	13501.4	61.5			
FH (60°-80°)	1657.7	7.6			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1470.9	6.7	B3/2500		
BM (30°-60°)	2293.2	10.4	B2/2500		
BH (60°-80°)	297.6	1.4	B1/500		G1/500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8
2.5°	5305.4	5356.4	5364.2	5427.0	5423.1	5529.0	5560.4	5564.4	5635.0	5599.7	5689.9
5°	5156.3	5128.8	5117.0	5226.9	5258.3	5352.5	5430.9	5478.0	5623.2	5674.2	5768.4
7.5°	5022.8	5022.8	5030.7	5128.8	5117.0	5238.7	5321.1	5466.3	5678.2	5721.3	5835.1
10°	4893.3	4846.3	4905.1	5007.1	5093.5	5148.4	5321.1	5458.4	5705.6	5831.2	5988.2
12.5°	4826.6	4850.2	4858.0	4932.6	5026.8	5191.6	5285.8	5513.3	5901.8	5976.4	6145.1
15°	5246.5	5199.4	5085.6	5018.9	5097.4	5175.9	5411.3	5642.8	6003.9	6109.8	6298.2
17.5°	5733.1	5693.9	5599.7	5419.2	5242.6	5387.8	5572.2	5784.1	6113.7	6270.7	6549.3
20°	6368.8	6306.0	6211.8	5858.7	5705.6	5548.7	5744.9	5996.0	6294.2	6435.5	6722.0
22.5°	7126.2	7126.2	6914.2	6486.5	6168.7	6019.6	6102.0	6247.2	6494.4	6686.7	6969.2
25°	7914.9	7891.3	7699.1	7255.6	6718.0	6541.5	6635.6	6737.7	6804.4	6910.3	7098.7
27.5°	8817.4	8680.1	8436.8	7946.3	7471.5	7130.1	7232.1	7141.8	7059.4	7114.4	7385.1
30°	9429.6	9515.9	9205.9	8735.0	8287.7	7907.0	7926.7	7848.2	7471.5	7550.0	7710.8
32.5°	10065.3	10120.2	9947.6	9688.6	9241.2	8797.8	8636.9	8570.2	8287.7	8323.0	8166.0
35°	10595.0	10701.0	10548.0	10434.2	10304.7	9947.6	9504.1	9720.0	9264.8	9178.5	8770.3
37.5°	11081.6	11050.2	11230.8	11113.0	11085.6	10834.4	10347.8	10391.0	10084.9	10065.3	9594.4
40°	11517.2	11525.1	11772.3	11827.2	11717.3	11270.0	10563.7	10905.1	11152.3	11175.8	10571.5
42.5°	11878.2	11984.2	12196.1	12639.5	12474.7	11729.1	10787.3	11160.1	12078.4	12223.5	11497.6
45°	12192.2	12408.0	12670.9	13067.2	12973.0	12380.5	11344.5	11685.9	13067.2	13447.9	12368.7
47.5°	12211.8	12494.3	12780.8	13369.4	13487.1	12729.8	11921.4	12517.9	13852.0	14264.1	13004.4
50°	12133.3	12282.4	12855.3	13495.0	13761.8	13298.7	12729.8	13216.3	14613.3	14872.3	13326.2
52.5°	11203.3	11317.1	12466.8	13612.7	14256.2	13942.3	13801.0	14189.5	15390.3	15582.6	13628.4
55°	9339.3	9319.7	10901.1	13020.1	14483.8	14895.9	14809.5	14946.9	16288.9	16461.6	13702.9
57.5°	6388.4	6745.5	8111.1	10842.3	13090.8	14672.2	14762.4	14534.8	15241.2	15307.9	11944.9
60°	3445.4	3594.5	4693.2	7236.0	9967.2	11956.7	12192.2	11780.1	11725.2	11536.8	8527.1
62.5°	1369.5	1444.1	2068.0	3582.7	5430.9	7267.4	7773.6	7604.9	7243.9	6749.4	4414.6
65°	651.4	698.5	1028.1	1675.6	2409.4	3029.4	3535.6	3692.6	2723.3	2452.6	1455.8
67.5°	443.4	478.7	749.5	957.5	859.4	898.6	1169.4	1087.0	639.6	545.4	404.2
70°	337.5	361.0	600.4	651.4	384.6	270.8	302.2	282.5	262.9	266.8	262.9
72.5°	239.4	259.0	439.5	384.6	168.7	125.6	160.9	192.3	192.3	192.3	188.4
75°	145.2	164.8	255.1	149.1	66.7	66.7	102.0	129.5	137.3	141.3	133.4
77.5°	74.6	94.2	86.3	43.2	43.2	51.0	74.6	90.3	98.1	98.1	94.2
80°	15.7	15.7	15.7	23.5	43.2	54.9	74.6	82.4	94.2	94.2	86.3
82.5°	0.0	3.9	11.8	23.5	39.2	51.0	70.6	82.4	94.2	98.1	90.3
85°	0.0	3.9	7.8	15.7	27.5	31.4	27.5	23.5	23.5	23.5	23.5
87.5°	0.0	0.0	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8	5642.8
2.5°	5697.8	5709.6	5689.9	5686.0	5670.3	5717.4	5603.6	5576.1	5646.8	5580.1	5595.8
5°	5772.3	5799.8	5764.5	5705.6	5619.3	5485.9	5372.1	5223.0	5152.3	5101.3	5093.5
7.5°	5827.3	5846.9	5811.6	5623.2	5364.2	5026.8	4775.6	4591.2	4446.0	4402.8	4332.2
10°	6050.9	6054.9	5878.3	5462.3	4956.1	4512.7	4128.1	3845.6	3700.4	3610.2	3570.9
12.5°	6200.1	6192.2	5835.1	5144.5	4469.5	3880.9	3441.4	3100.0	2966.6	2923.4	2896.0
15°	6388.4	6345.3	5733.1	4818.8	3841.7	3206.0	2809.6	2574.2	2562.4	2535.0	2562.4
17.5°	6537.5	6415.9	5584.0	4226.2	3241.3	2640.9	2381.9	2397.6	2429.0	2456.5	2460.4
20°	6780.8	6529.7	5242.6	3708.3	2684.1	2264.2	2260.3	2330.9	2409.4	2440.8	2472.2
22.5°	6965.3	6576.8	4877.6	3155.0	2228.9	2111.2	2177.9	2283.8	2342.7	2374.1	2421.2
25°	7032.0	6447.3	4391.1	2601.7	2009.1	2040.5	2142.6	2213.2	2287.7	2323.1	2303.4
27.5°	7098.7	6380.6	3810.3	2142.6	1891.4	1993.4	2079.8	2150.4	2173.9	2221.0	2252.4
30°	7259.6	6149.1	3288.4	1852.2	1832.6	1962.0	2024.8	2048.4	2111.2	2138.6	2138.6
32.5°	7389.1	6058.8	2735.1	1714.8	1824.7	1977.7	1985.6	1985.6	1993.4	1973.8	1966.0
35°	7655.9	5748.8	2240.7	1632.4	1820.8	1981.7	2001.3	1934.6	1754.1	1683.4	1663.8
37.5°	7985.5	5548.7	1875.7	1612.8	1848.2	2028.8	2060.1	1809.0	1573.6	1459.8	1440.1
40°	8385.8	5407.4	1636.3	1605.0	1911.0	2138.6	2044.5	1710.9	1404.8	1240.0	1232.2
42.5°	8852.8	5277.9	1475.5	1601.0	1989.5	2252.4	2028.8	1628.5	1232.2	1122.3	1138.0
45°	9225.5	5207.3	1365.6	1573.6	2017.0	2319.1	2040.5	1483.3	1161.5	1090.9	1098.7
47.5°	9515.9	5058.2	1275.3	1526.5	2013.1	2342.7	1934.6	1424.4	1126.2	1145.8	1165.5
50°	9523.8	4858.0	1161.5	1424.4	1954.2	2299.5	1812.9	1369.5	1118.4	1200.8	1240.0
52.5°	9417.8	4575.5	1039.9	1279.3	1816.9	2150.4	1703.1	1346.0	1083.0	1075.2	1122.3
55°	9041.1	4045.7	835.8	1036.0	1534.3	1773.7	1605.0	1302.8	977.1	886.8	894.7
57.5°	7306.7	2899.9	616.1	741.7	1087.0	1298.9	1448.0	1283.2	879.0	753.4	757.3
60°	4524.5	1644.2	451.3	506.2	671.0	788.7	1173.3	1192.9	784.8	635.7	627.9
62.5°	2323.1	812.3	349.2	357.1	412.0	463.0	804.4	1000.6	710.3	604.3	604.3
65°	777.0	400.3	306.1	274.7	274.7	286.5	486.6	694.6	600.4	506.2	506.2
67.5°	333.5	298.2	266.8	239.4	219.7	208.0	274.7	404.2	447.3	384.6	368.9
70°	259.0	251.1	231.5	200.1	172.7	157.0	160.9	208.0	255.1	247.2	239.4
72.5°	192.3	192.3	184.4	157.0	133.4	113.8	106.0	109.9	121.6	125.6	129.5
75°	133.4	137.3	137.3	121.6	98.1	82.4	70.6	58.9	47.1	39.2	35.3
77.5°	90.3	94.2	102.0	90.3	74.6	54.9	43.2	31.4	19.6	7.8	7.8
80°	78.5	90.3	98.1	90.3	78.5	58.9	43.2	23.5	11.8	0.0	0.0
82.5°	82.4	90.3	102.0	86.3	74.6	54.9	43.2	27.5	11.8	3.9	0.0
85°	19.6	19.6	23.5	27.5	35.3	39.2	31.4	19.6	11.8	3.9	0.0
87.5°	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	0.0	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)