

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: P530507

Luminaire Tested: **GALN-SA5D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530507
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-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 19704 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

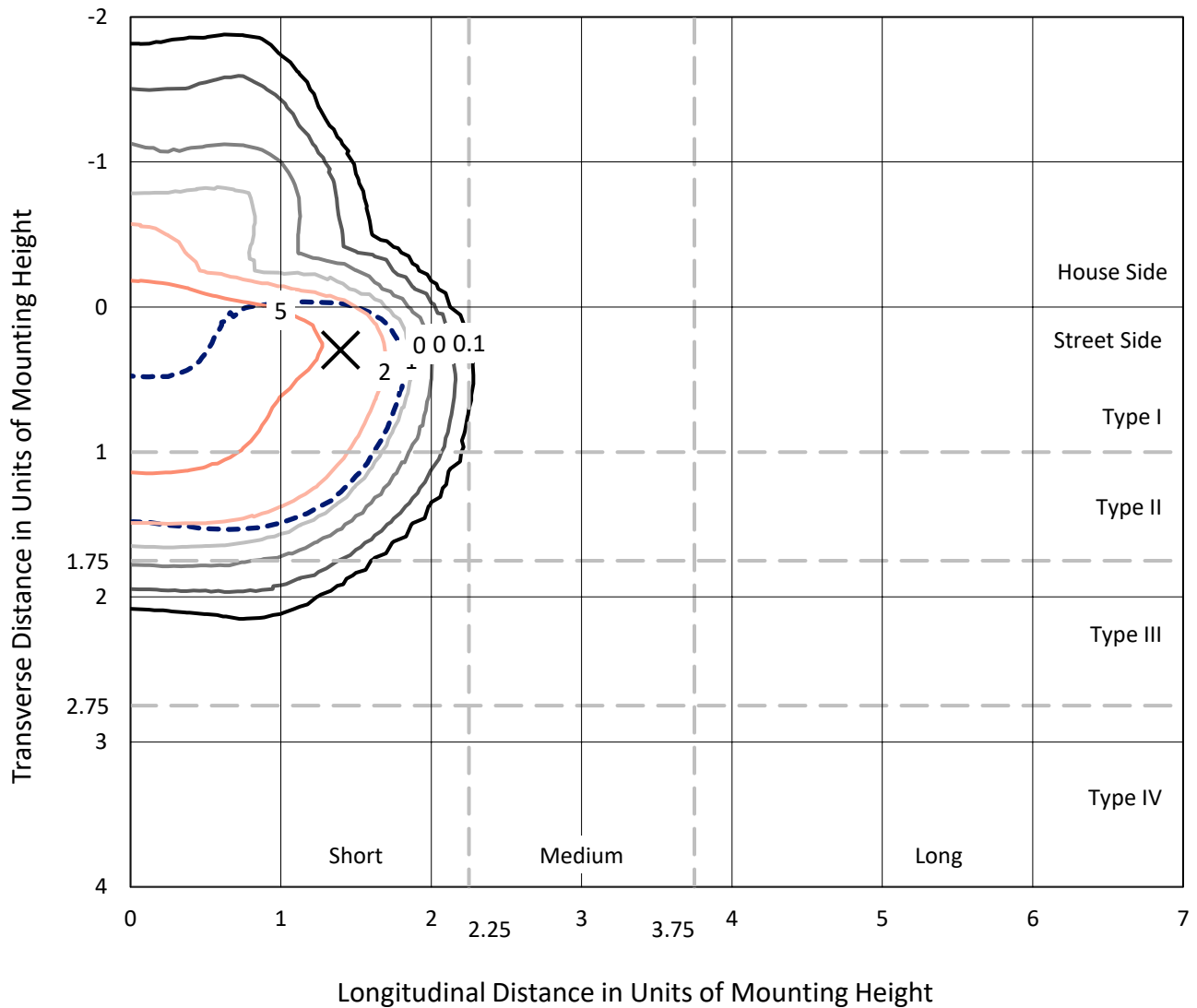
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530507
 CATALOG NUMBER: GALN-SA5D-727-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

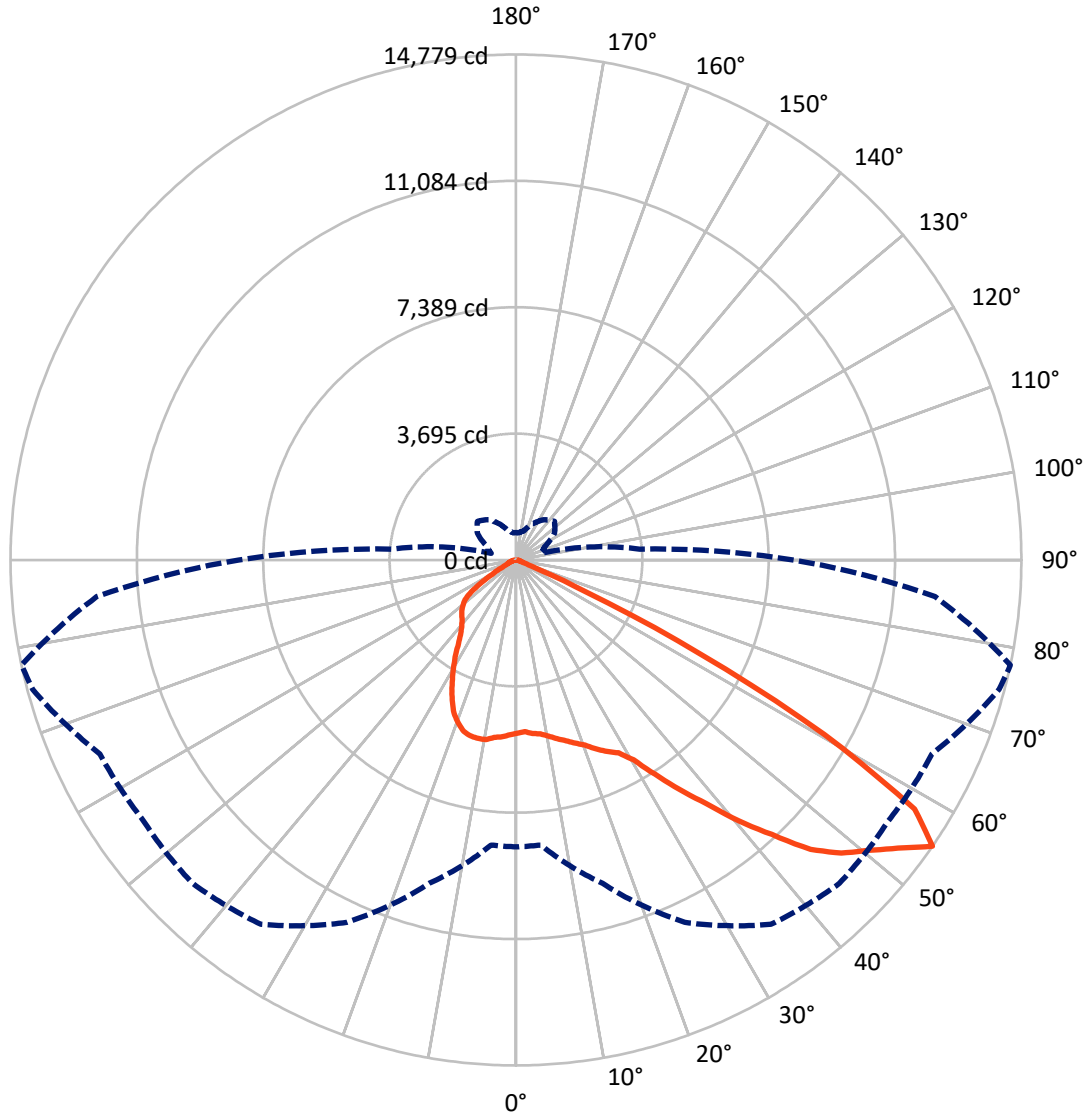
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

REPORT NUMBER: P530507
CATALOG NUMBER: GALN-SA5D-727-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

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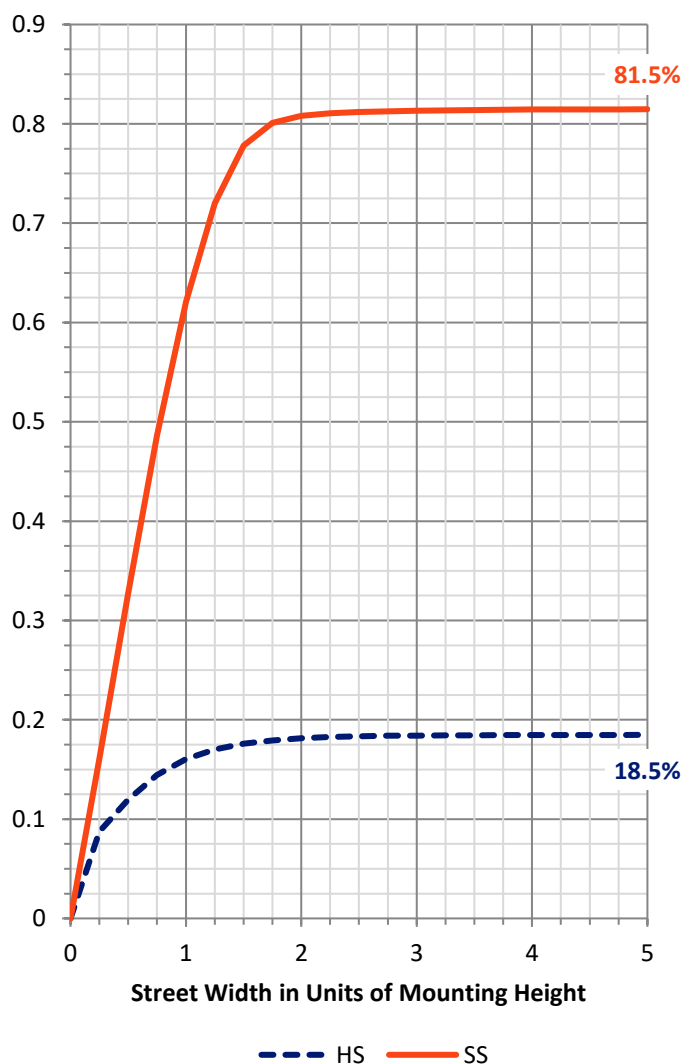
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3659.8	0.0	3659.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16044.2	0.0	16044.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	19704.0	0.0	19704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.7	2.3
10°-20°	1195.5	6.1
20°-30°	2095.5	10.6
30°-40°	3455.2	17.5
40°-50°	5027.7	25.5
50°-60°	5696.9	28.9
60°-70°	1628.8	8.3
70°-80°	126.5	0.6
80°-90°	26.3	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°	19704.0	100.0
0°-180°	19704.0	100.0

Coefficient of Utilization

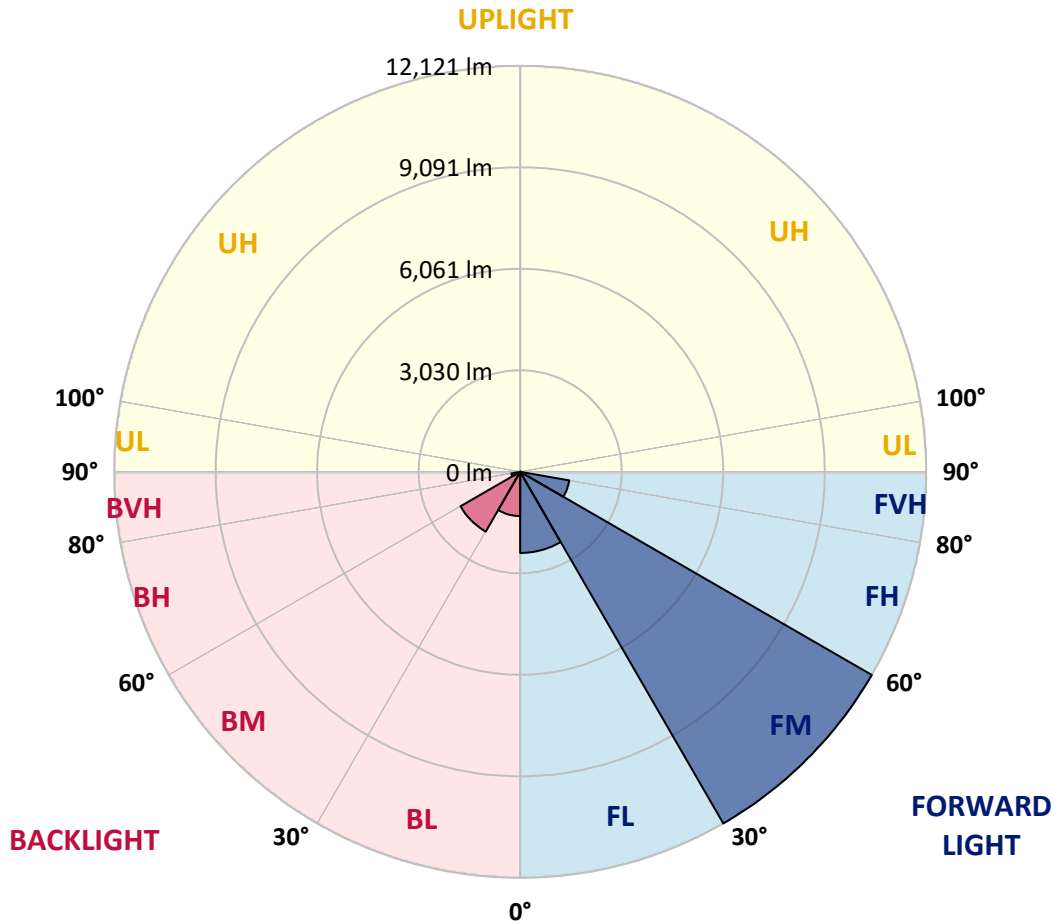


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2422.2	12.3			
FM (30°-60°)	12121.0	61.5			
FH (60°-80°)	1488.2	7.6			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	1320.5	6.7	B3/2500		
BM (30°-60°)	2058.7	10.4	B2/2500		
BH (60°-80°)	267.1	1.4	B1/500		G1/500
BVH (80°-90°)	13.5	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





REPORT NUMBER: P530507

CATALOG NUMBER: GALN-SA5D-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9
2.5°	4762.9	4808.7	4815.8	4872.2	4868.6	4963.7	4991.9	4995.5	5058.9	5027.2	5108.2
5°	4629.1	4604.4	4593.8	4692.5	4720.7	4805.2	4875.7	4917.9	5048.3	5094.1	5178.6
7.5°	4509.3	4509.3	4516.3	4604.4	4593.8	4703.1	4777.0	4907.4	5097.6	5136.4	5238.5
10°	4393.0	4350.8	4403.6	4495.2	4572.7	4622.0	4777.0	4900.3	5122.3	5235.0	5375.9
12.5°	4333.1	4354.3	4361.3	4428.3	4512.8	4660.8	4745.3	4949.7	5298.4	5365.4	5516.8
15°	4710.1	4667.8	4565.7	4505.8	4576.2	4646.7	4858.1	5065.9	5390.0	5485.1	5654.2
17.5°	5146.9	5111.7	5027.2	4865.1	4706.6	4836.9	5002.5	5192.7	5488.7	5629.6	5879.7
20°	5717.6	5661.3	5576.7	5259.7	5122.3	4981.4	5157.5	5383.0	5650.7	5777.5	6034.7
22.5°	6397.6	6397.6	6207.3	5823.3	5538.0	5404.1	5478.1	5608.4	5830.4	6003.0	6256.6
25°	7105.7	7084.5	6911.9	6513.8	6031.2	5872.7	5957.2	6048.8	6108.7	6203.8	6372.9
27.5°	7915.9	7792.6	7574.2	7133.8	6707.6	6401.1	6492.7	6411.7	6337.7	6387.0	6630.1
30°	8465.5	8543.0	8264.7	7841.9	7440.3	7098.6	7116.2	7045.8	6707.6	6778.0	6922.5
32.5°	9036.2	9085.5	8930.5	8698.0	8296.4	7898.3	7753.9	7694.0	7440.3	7472.0	7331.1
35°	9511.8	9606.9	9469.5	9367.4	9251.1	8930.5	8532.4	8726.2	8317.5	8240.0	7873.7
37.5°	9948.6	9920.4	10082.5	9976.8	9952.2	9726.7	9289.9	9328.6	9053.8	9036.2	8613.5
40°	10339.7	10346.7	10568.7	10618.0	10519.3	10117.7	9483.6	9790.1	10012.0	10033.2	9490.7
42.5°	10663.8	10758.9	10949.1	11347.2	11199.3	10529.9	9684.4	10019.1	10843.4	10973.8	10322.1
45°	10945.6	11139.4	11375.4	11731.2	11646.7	11114.7	10184.7	10491.2	11731.2	12072.9	11104.1
47.5°	10963.2	11216.9	11474.0	12002.5	12108.2	11428.2	10702.5	11238.0	12435.8	12805.7	11674.8
50°	10892.8	11026.6	11541.0	12115.2	12354.8	11939.1	11428.2	11865.1	13119.2	13351.7	11963.7
52.5°	10057.8	10160.0	11192.2	12220.9	12798.6	12516.8	12390.0	12738.8	13816.8	13989.4	12235.0
55°	8384.5	8366.9	9786.6	11688.9	13003.0	13372.9	13295.4	13418.7	14623.5	14778.5	12301.9
57.5°	5735.3	6055.8	7281.8	9733.7	11752.3	13172.1	13253.1	13048.8	13682.9	13742.8	10723.7
60°	3093.1	3227.0	4213.4	6496.2	8948.1	10734.2	10945.6	10575.7	10526.4	10357.3	7655.2
62.5°	1229.5	1296.4	1856.6	3216.4	4875.7	6524.4	6978.8	6827.4	6503.2	6059.4	3963.2
65°	584.8	627.1	923.0	1504.3	2163.1	2719.7	3174.1	3315.0	2444.9	2201.8	1307.0
67.5°	398.1	429.8	672.9	859.6	771.5	806.7	1049.8	975.8	574.2	489.7	362.9
70°	303.0	324.1	539.0	584.8	345.2	243.1	271.3	253.6	236.0	239.6	236.0
72.5°	214.9	232.5	394.6	345.2	151.5	112.7	144.4	172.6	172.6	172.6	169.1
75°	130.3	148.0	229.0	133.9	59.9	59.9	91.6	116.3	123.3	126.8	119.8
77.5°	66.9	84.5	77.5	38.8	38.8	45.8	66.9	81.0	88.1	88.1	84.5
80°	14.1	14.1	14.1	21.1	38.8	49.3	66.9	74.0	84.5	84.5	77.5
82.5°	0.0	3.5	10.6	21.1	35.2	45.8	63.4	74.0	84.5	88.1	81.0
85°	0.0	3.5	7.0	14.1	24.7	28.2	24.7	21.1	21.1	21.1	21.1
87.5°	0.0	0.0	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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°	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9	5065.9
2.5°	5115.2	5125.8	5108.2	5104.7	5090.6	5132.8	5030.7	5006.0	5069.4	5009.5	5023.6
5°	5182.2	5206.8	5175.1	5122.3	5044.8	4925.0	4822.8	4689.0	4625.5	4579.8	4572.7
7.5°	5231.5	5249.1	5217.4	5048.3	4815.8	4512.8	4287.4	4121.8	3991.4	3952.7	3889.3
10°	5432.3	5435.8	5277.3	4903.9	4449.4	4051.3	3706.1	3452.4	3322.1	3241.1	3205.8
12.5°	5566.2	5559.1	5238.5	4618.5	4012.6	3484.1	3089.6	2783.1	2663.3	2624.6	2599.9
15°	5735.3	5696.5	5146.9	4326.1	3448.9	2878.2	2522.4	2311.0	2300.4	2275.8	2300.4
17.5°	5869.1	5759.9	5013.1	3794.1	2909.9	2370.9	2138.4	2152.5	2180.7	2205.3	2208.8
20°	6087.5	5862.1	4706.6	3329.1	2409.7	2032.7	2029.2	2092.6	2163.1	2191.2	2219.4
22.5°	6253.1	5904.4	4378.9	2832.4	2001.0	1895.3	1955.2	2050.3	2103.2	2131.3	2173.6
25°	6313.0	5788.1	3942.1	2335.7	1803.7	1831.9	1923.5	1986.9	2053.8	2085.5	2067.9
27.5°	6372.9	5728.2	3420.7	1923.5	1698.0	1789.6	1867.1	1930.5	1951.7	1994.0	2022.1
30°	6517.3	5520.4	2952.2	1662.8	1645.2	1761.4	1817.8	1838.9	1895.3	1920.0	1920.0
32.5°	6633.6	5439.3	2455.5	1539.5	1638.1	1775.5	1782.6	1782.6	1789.6	1772.0	1765.0
35°	6873.2	5161.0	2011.6	1465.5	1634.6	1779.1	1796.7	1736.8	1574.7	1511.3	1493.7
37.5°	7169.1	4981.4	1683.9	1447.9	1659.3	1821.3	1849.5	1624.1	1412.7	1310.5	1292.9
40°	7528.4	4854.5	1469.0	1440.9	1715.6	1920.0	1835.4	1536.0	1261.2	1113.2	1106.2
42.5°	7947.6	4738.3	1324.6	1437.3	1786.1	2022.1	1821.3	1462.0	1106.2	1007.5	1021.6
45°	8282.3	4674.9	1226.0	1412.7	1810.8	2082.0	1831.9	1331.7	1042.8	979.4	986.4
47.5°	8543.0	4541.0	1144.9	1370.4	1807.2	2103.2	1736.8	1278.8	1011.1	1028.7	1046.3
50°	8550.0	4361.3	1042.8	1278.8	1754.4	2064.4	1627.6	1229.5	1004.0	1078.0	1113.2
52.5°	8454.9	4107.7	933.6	1148.5	1631.1	1930.5	1528.9	1208.3	972.3	965.3	1007.5
55°	8116.7	3632.1	750.4	930.0	1377.4	1592.3	1440.9	1169.6	877.2	796.2	803.2
57.5°	6559.6	2603.4	553.1	665.8	975.8	1166.1	1299.9	1152.0	789.1	676.4	679.9
60°	4061.9	1476.1	405.1	454.5	602.4	708.1	1053.3	1071.0	704.6	570.7	563.7
62.5°	2085.5	729.2	313.5	320.6	369.9	415.7	722.2	898.3	637.6	542.5	542.5
65°	697.5	359.3	274.8	246.6	246.6	257.2	436.8	623.6	539.0	454.5	454.5
67.5°	299.4	267.7	239.6	214.9	197.3	186.7	246.6	362.9	401.6	345.2	331.2
70°	232.5	225.5	207.9	179.7	155.0	140.9	144.4	186.7	229.0	221.9	214.9
72.5°	172.6	172.6	165.6	140.9	119.8	102.2	95.1	98.6	109.2	112.7	116.3
75°	119.8	123.3	123.3	109.2	88.1	74.0	63.4	52.8	42.3	35.2	31.7
77.5°	81.0	84.5	91.6	81.0	66.9	49.3	38.8	28.2	17.6	7.0	7.0
80°	70.5	81.0	88.1	81.0	70.5	52.8	38.8	21.1	10.6	0.0	0.0
82.5°	74.0	81.0	91.6	77.5	66.9	49.3	38.8	24.7	10.6	3.5	0.0
85°	17.6	17.6	21.1	24.7	31.7	35.2	28.2	17.6	10.6	3.5	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	3.5	3.5	3.5	3.5	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)