

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: P531937

Luminaire Tested: **GALN-SA7B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531937  
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-SA7B-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA 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: 21952 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

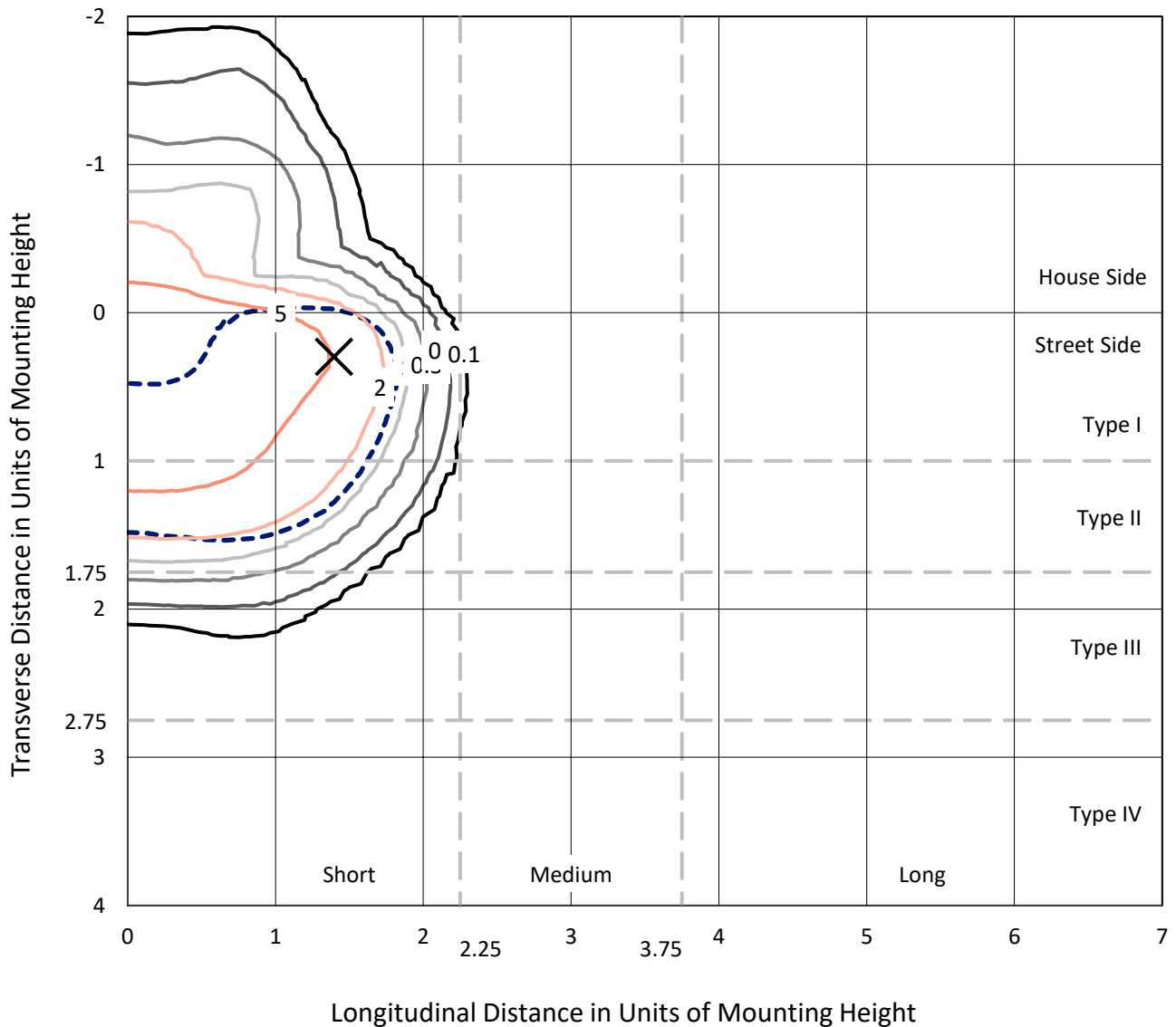
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

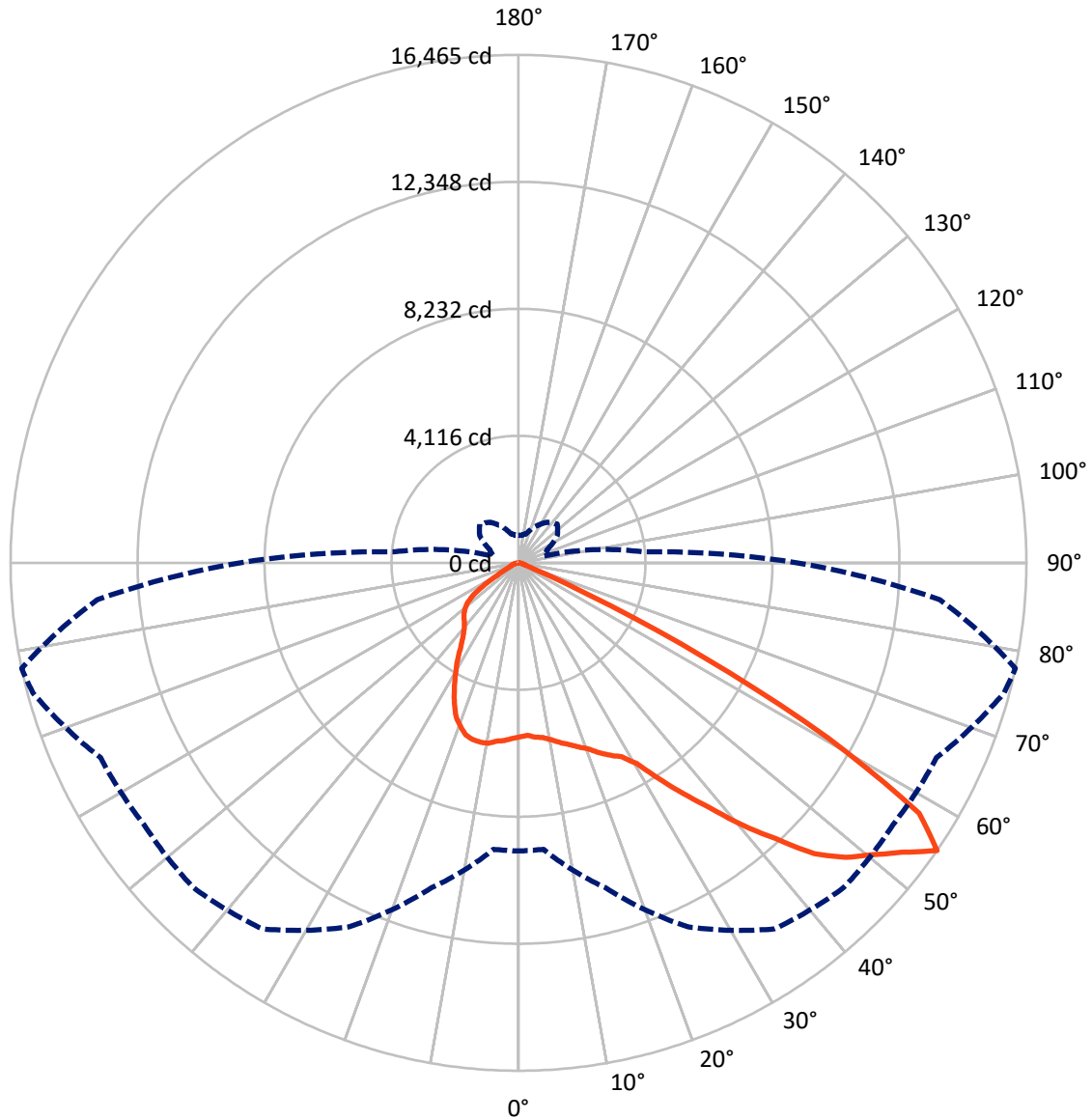
✕ Max cd  
 - - - 1/2 Max cd



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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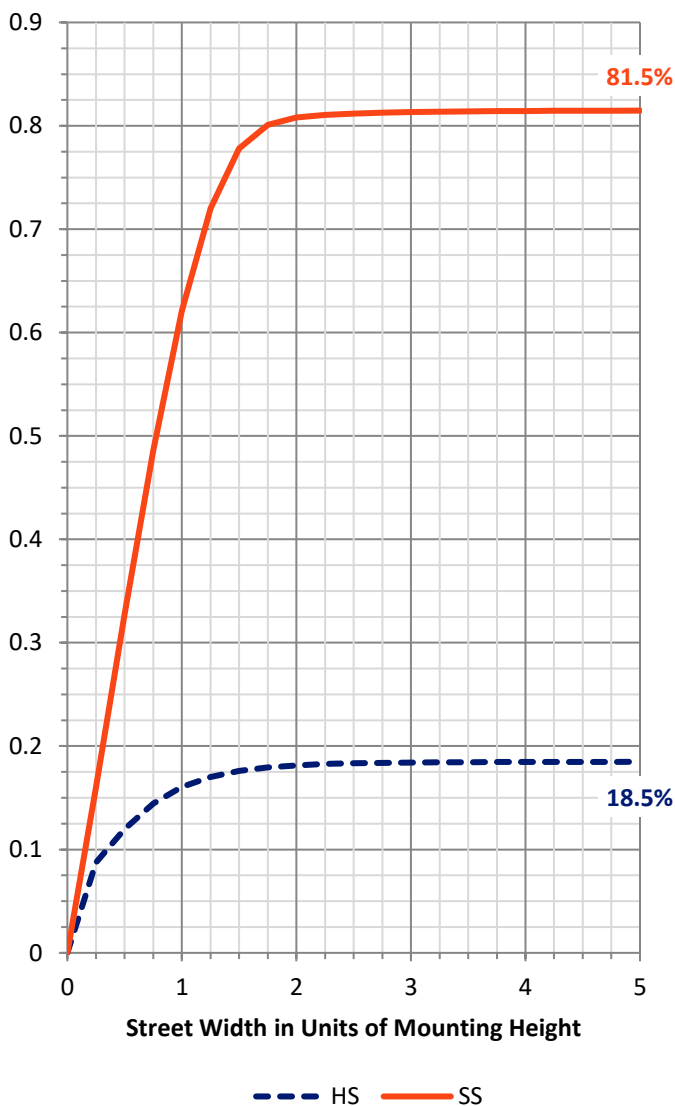
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4077.3	0.0	4077.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	17874.6	0.0	17874.6
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	21952.0	0.0	21952.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.3	2.3
10°-20°	1331.9	6.1
20°-30°	2334.5	10.6
30°-40°	3849.3	17.5
40°-50°	5601.3	25.5
50°-60°	6346.8	28.9
60°-70°	1814.7	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°	21952.0	100.0
0°-180°	21952.0	100.0

**Coefficient of Utilization**



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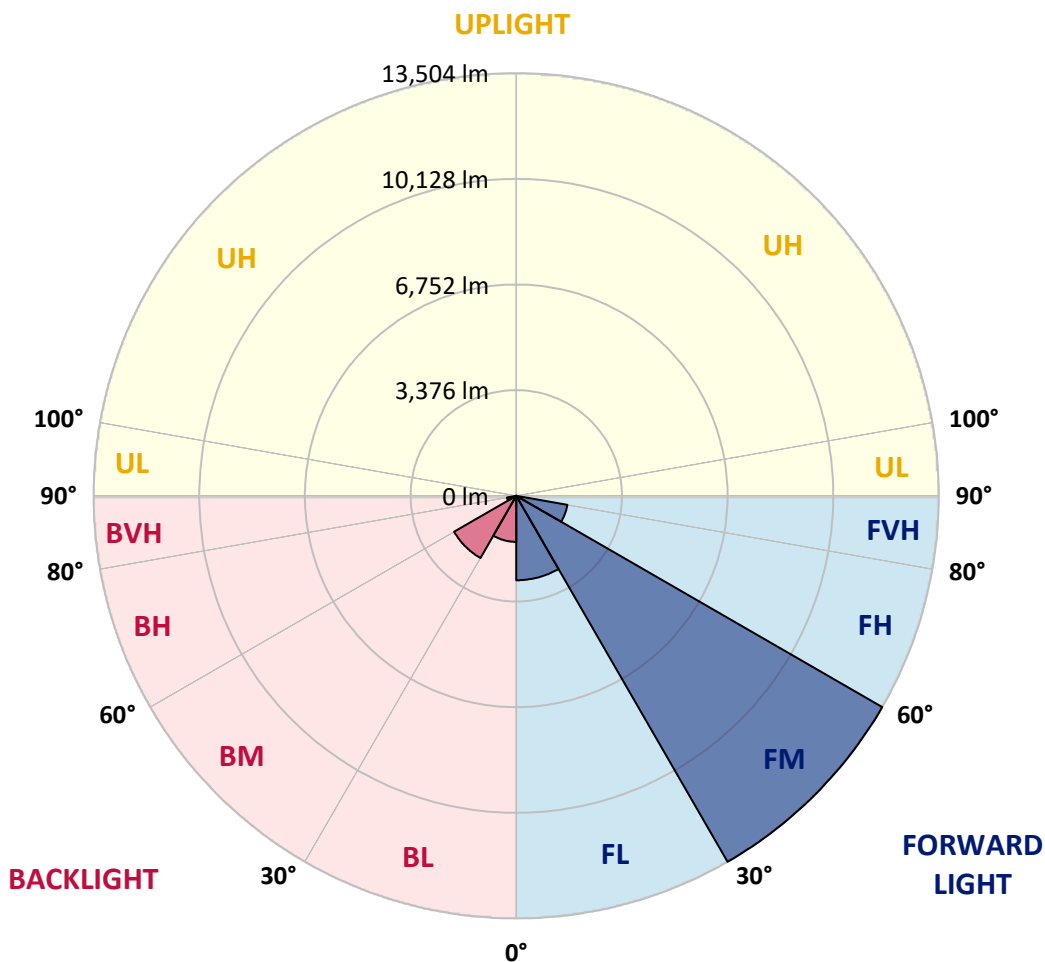
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2698.5	12.3			
FM (30°-60°)	13503.9	61.5			
FH (60°-80°)	1657.9	7.6			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1471.1	6.7	B3/2500		
BM (30°-60°)	2293.6	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°	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9
2.5°	5306.3	5357.4	5365.2	5428.0	5424.1	5530.1	5561.5	5565.4	5636.0	5600.7	5691.0
5°	5157.2	5129.7	5117.9	5227.8	5259.2	5353.4	5431.9	5479.0	5624.2	5675.3	5769.5
7.5°	5023.8	5023.8	5031.6	5129.7	5117.9	5239.6	5322.0	5467.3	5679.2	5722.4	5836.2
10°	4894.2	4847.1	4906.0	5008.1	5094.4	5149.3	5322.0	5459.4	5706.7	5832.3	5989.3
12.5°	4827.5	4851.1	4858.9	4933.5	5027.7	5192.5	5286.7	5514.4	5902.9	5977.5	6146.2
15°	5247.5	5200.4	5086.5	5019.8	5098.3	5176.8	5412.3	5643.9	6005.0	6110.9	6299.3
17.5°	5734.1	5694.9	5600.7	5420.2	5243.5	5388.8	5573.2	5785.2	6114.8	6271.8	6550.5
20°	6370.0	6307.2	6213.0	5859.7	5706.7	5549.7	5745.9	5997.1	6295.4	6436.7	6723.2
22.5°	7127.4	7127.4	6915.5	6487.7	6169.8	6020.7	6103.1	6248.3	6495.6	6687.9	6970.5
25°	7916.3	7892.8	7700.5	7257.0	6719.3	6542.7	6636.8	6738.9	6805.6	6911.6	7100.0
27.5°	8819.0	8681.7	8438.3	7947.7	7472.8	7131.4	7233.4	7143.1	7060.7	7115.7	7386.5
30°	9431.3	9517.7	9207.6	8736.6	8289.2	7908.5	7928.1	7849.6	7472.8	7551.3	7712.2
32.5°	10067.1	10122.1	9949.4	9690.3	9242.9	8799.4	8638.5	8571.8	8289.2	8324.5	8167.5
35°	10597.0	10702.9	10549.9	10436.1	10306.5	9949.4	9505.9	9721.7	9266.5	9180.1	8771.9
37.5°	11083.7	11052.3	11232.8	11115.1	11087.6	10836.4	10349.7	10392.9	10086.8	10067.1	9596.2
40°	11519.3	11527.2	11774.4	11829.4	11719.5	11272.0	10565.6	10907.0	11154.3	11177.8	10573.4
42.5°	11880.4	11986.4	12198.3	12641.8	12477.0	11731.2	10789.3	11162.2	12080.6	12225.8	11499.7
45°	12194.4	12410.2	12673.2	13069.6	12975.4	12382.8	11346.6	11688.1	13069.6	13450.3	12371.0
47.5°	12214.0	12496.6	12783.1	13371.8	13489.6	12732.1	11923.6	12520.1	13854.6	14266.7	13006.8
50°	12135.5	12284.6	12857.7	13497.4	13764.3	13301.2	12732.1	13218.7	14616.0	14875.0	13328.6
52.5°	11205.3	11319.1	12469.1	13615.2	14258.8	13944.8	13803.5	14192.1	15393.1	15585.4	13630.9
55°	9341.0	9321.4	10903.1	13022.5	14486.5	14898.6	14812.2	14949.6	16291.9	16464.6	13705.4
57.5°	6389.6	6746.7	8112.6	10844.2	13093.2	14674.9	14765.1	14537.5	15243.9	15310.7	11947.1
60°	3446.0	3595.1	4694.1	7237.3	9969.0	11958.9	12194.4	11782.3	11727.3	11538.9	8528.6
62.5°	1369.8	1444.3	2068.4	3583.3	5431.9	7268.7	7775.0	7606.3	7245.2	6750.7	4415.4
65°	651.5	698.6	1028.3	1675.9	2409.8	3030.0	3536.3	3693.2	2723.8	2453.0	1456.1
67.5°	443.5	478.8	749.6	957.7	859.5	898.8	1169.6	1087.2	639.7	545.5	404.3
70°	337.5	361.1	600.5	651.5	384.6	270.8	302.2	282.6	263.0	266.9	263.0
72.5°	239.4	259.0	439.6	384.6	168.8	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	137.4	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°	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9	5643.9
2.5°	5698.8	5710.6	5691.0	5687.0	5671.3	5718.4	5604.6	5577.2	5647.8	5581.1	5596.8
5°	5773.4	5800.9	5765.5	5706.7	5620.3	5486.9	5373.1	5223.9	5153.3	5102.2	5094.4
7.5°	5828.3	5848.0	5812.6	5624.2	5365.2	5027.7	4776.5	4592.0	4446.8	4403.6	4333.0
10°	6052.1	6056.0	5879.4	5463.3	4957.0	4513.5	4128.9	3846.3	3701.1	3610.8	3571.6
12.5°	6201.2	6193.3	5836.2	5145.4	4470.4	3881.6	3442.1	3100.6	2967.2	2924.0	2896.5
15°	6389.6	6346.4	5734.1	4819.7	3842.4	3206.6	2810.2	2574.7	2562.9	2535.4	2562.9
17.5°	6538.7	6417.1	5585.0	4227.0	3241.9	2641.4	2382.4	2398.1	2429.5	2456.9	2460.9
20°	6782.1	6530.9	5243.5	3708.9	2684.6	2264.6	2260.7	2331.3	2409.8	2441.2	2472.6
22.5°	6966.5	6578.0	4878.5	3155.5	2229.3	2111.5	2178.3	2284.2	2343.1	2374.5	2421.6
25°	7033.3	6448.5	4391.9	2602.1	2009.5	2040.9	2142.9	2213.6	2288.2	2323.5	2303.9
27.5°	7100.0	6381.7	3811.0	2142.9	1891.8	1993.8	2080.1	2150.8	2174.3	2221.4	2252.8
30°	7260.9	6150.2	3289.0	1852.5	1832.9	1962.4	2025.2	2048.7	2111.5	2139.0	2139.0
32.5°	7390.4	6059.9	2735.6	1715.1	1825.0	1978.1	1986.0	1986.0	1993.8	1974.2	1966.3
35°	7657.3	5749.8	2241.1	1632.7	1821.1	1982.0	2001.7	1934.9	1754.4	1683.7	1664.1
37.5°	7987.0	5549.7	1876.1	1613.1	1848.6	2029.1	2060.5	1809.3	1573.8	1460.0	1440.4
40°	8387.3	5408.4	1636.6	1605.2	1911.4	2139.0	2044.8	1711.2	1405.1	1240.2	1232.4
42.5°	8854.4	5278.9	1475.7	1601.3	1989.9	2252.8	2029.1	1628.8	1232.4	1122.5	1138.2
45°	9227.2	5208.2	1365.8	1573.8	2017.4	2319.6	2040.9	1483.6	1161.7	1091.1	1098.9
47.5°	9517.7	5059.1	1275.6	1526.7	2013.4	2343.1	1934.9	1424.7	1126.4	1146.0	1165.7
50°	9525.5	4858.9	1161.7	1424.7	1954.6	2299.9	1813.3	1369.8	1118.6	1201.0	1240.2
52.5°	9419.5	4576.3	1040.1	1279.5	1817.2	2150.8	1703.4	1346.2	1083.2	1075.4	1122.5
55°	9042.8	4046.5	836.0	1036.1	1534.6	1774.0	1605.2	1303.0	977.3	887.0	894.9
57.5°	7308.0	2900.4	616.2	741.8	1087.2	1299.1	1448.3	1283.4	879.2	753.6	757.5
60°	4525.3	1644.5	451.4	506.3	671.1	788.9	1173.5	1193.1	785.0	635.8	628.0
62.5°	2323.5	812.4	349.3	357.2	412.1	463.1	804.6	1000.8	710.4	604.4	604.4
65°	777.1	400.3	306.1	274.7	274.7	286.5	486.7	694.7	600.5	506.3	506.3
67.5°	333.6	298.3	266.9	239.4	219.8	208.0	274.7	404.3	447.4	384.6	368.9
70°	259.0	251.2	231.6	200.2	172.7	157.0	160.9	208.0	255.1	247.3	239.4
72.5°	192.3	192.3	184.5	157.0	133.4	113.8	106.0	109.9	121.7	125.6	129.5
75°	133.4	137.4	137.4	121.7	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)