

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: P532327

Luminaire Tested: **GALN-SA7C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532327  
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-SA7C-830-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1050mA 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: 23665 lumens  
Efficiency: N/A  
Efficacy: 62.8 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

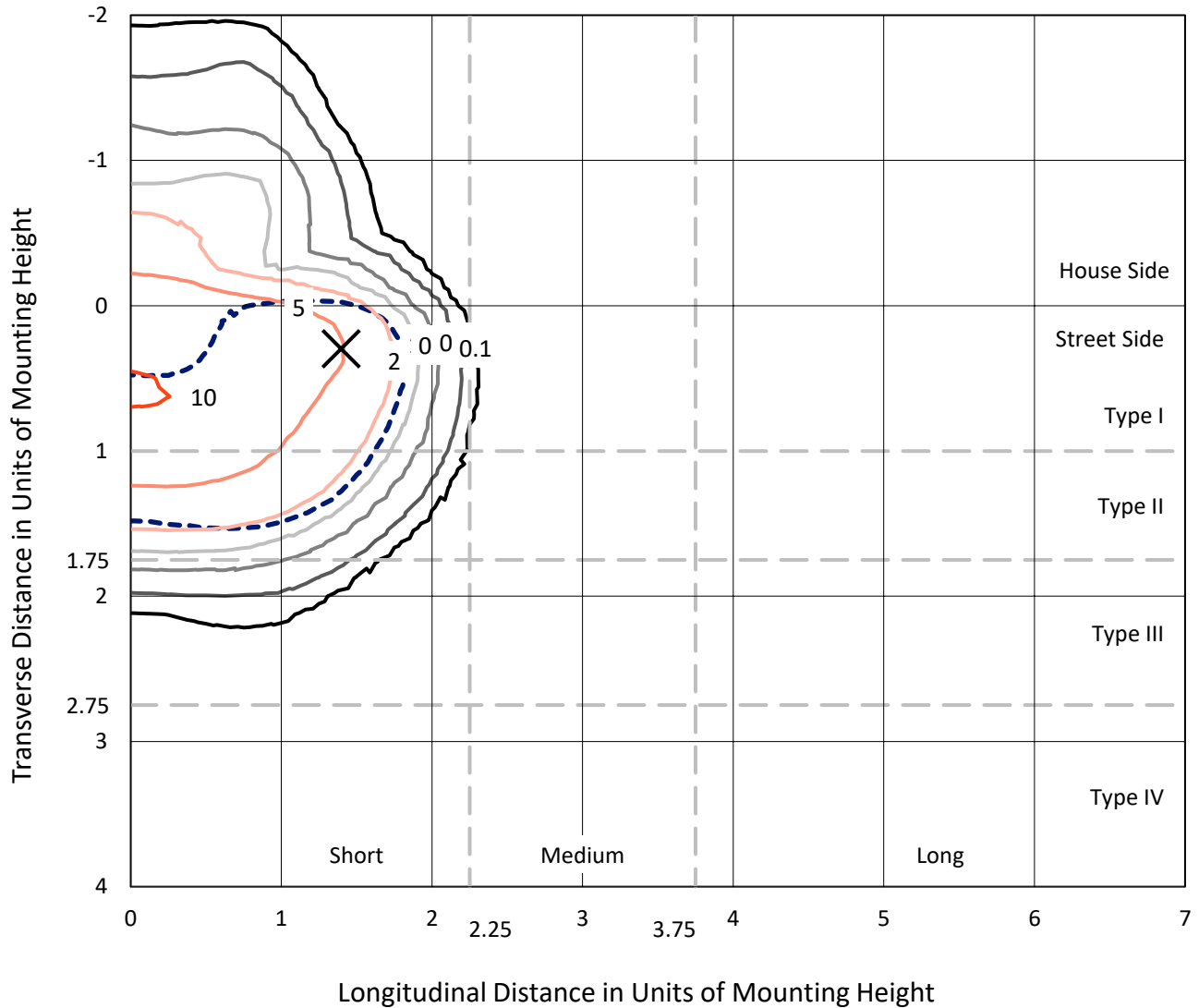
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

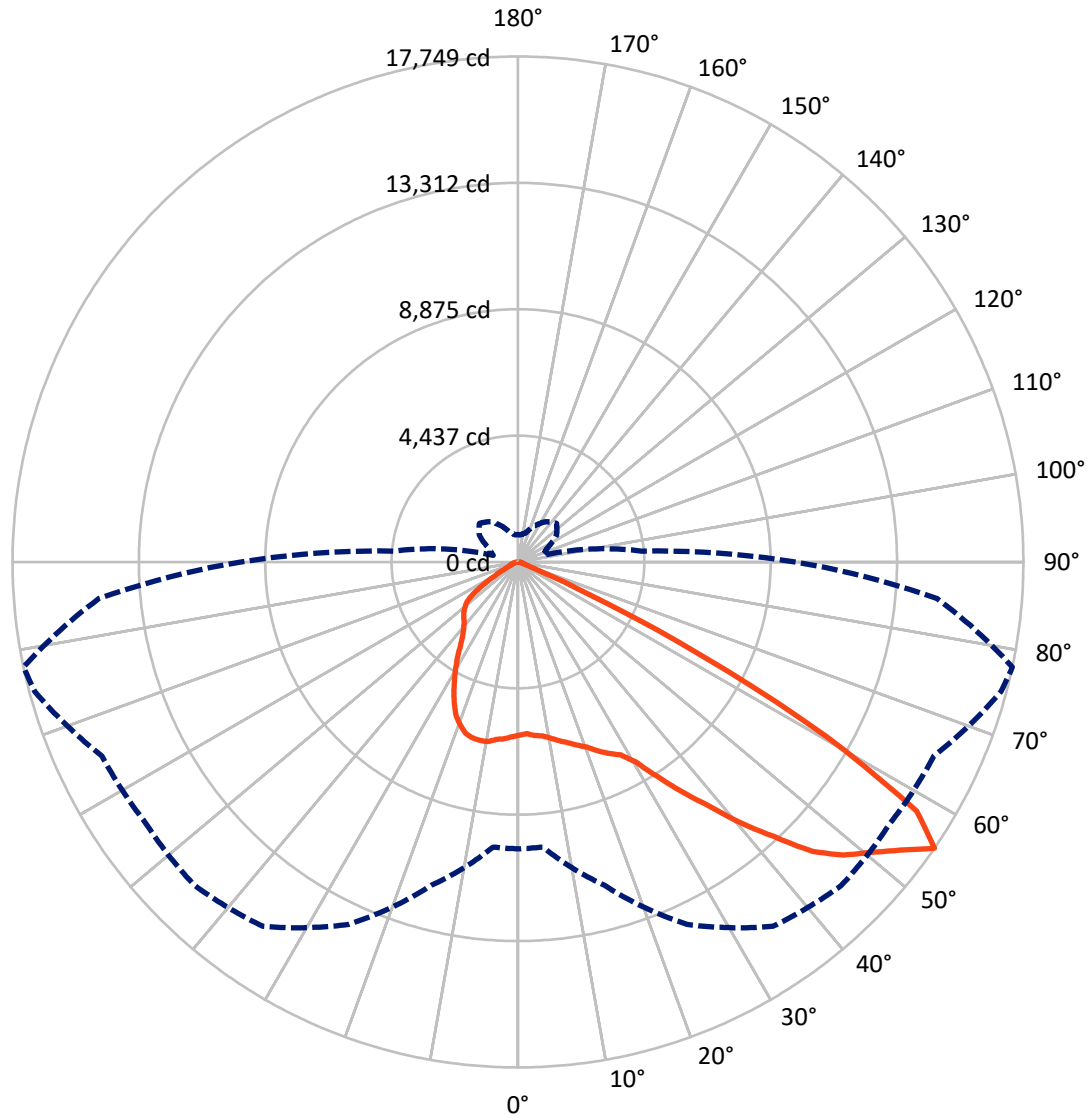
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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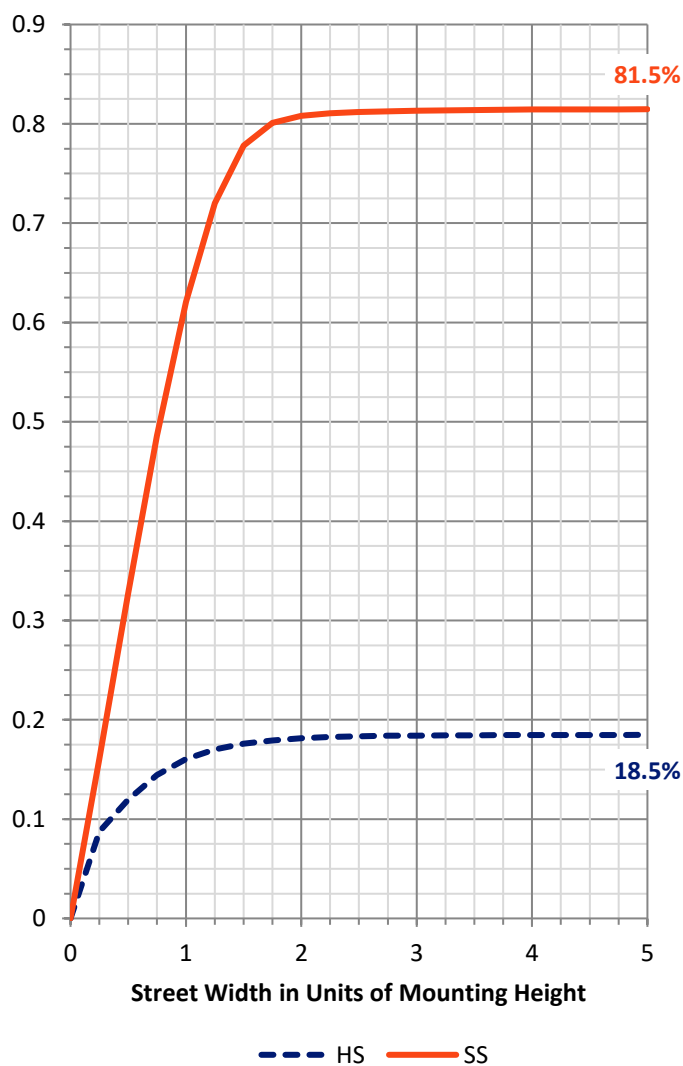
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4395.5	0.0	4395.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	19269.5	0.0	19269.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	23665.0	0.0	23665.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.5	2.3
10°-20°	1435.8	6.1
20°-30°	2516.7	10.6
30°-40°	4149.7	17.5
40°-50°	6038.4	25.5
50°-60°	6842.1	28.9
60°-70°	1956.3	8.3
70°-80°	151.9	0.6
80°-90°	31.6	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°	23665.0	100.0
0°-180°	23665.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P532327

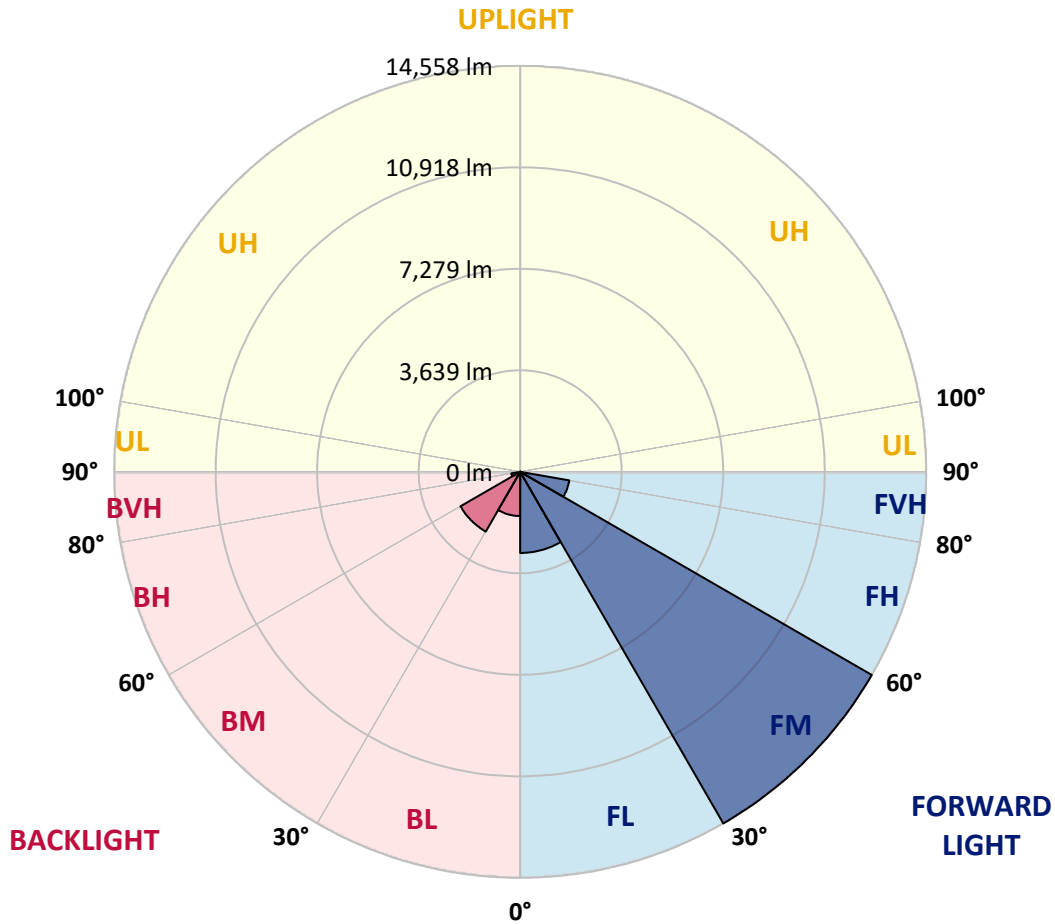
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2909.1	12.3			
FM (30°-60°)	14557.7	61.5			
FH (60°-80°)	1787.3	7.6			G1/1800
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	1585.9	6.7	B3/2500		
BM (30°-60°)	2472.5	10.4	B2/2500		
BH (60°-80°)	320.9	1.4	B1/500		G1/500
BVH (80°-90°)	16.2	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°	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3
2.5°	5720.4	5775.4	5783.9	5851.6	5847.3	5961.6	5995.4	5999.7	6075.8	6037.7	6135.1
5°	5559.6	5530.0	5517.3	5635.8	5669.6	5771.2	5855.8	5906.6	6063.1	6118.1	6219.7
7.5°	5415.8	5415.8	5424.2	5530.0	5517.3	5648.5	5737.3	5893.9	6122.4	6168.9	6291.6
10°	5276.2	5225.4	5288.8	5398.9	5491.9	5551.2	5737.3	5885.4	6152.0	6287.4	6456.6
12.5°	5204.2	5229.6	5238.1	5318.5	5420.0	5597.7	5699.3	5944.7	6363.5	6443.9	6625.9
15°	5656.9	5606.2	5483.5	5411.5	5496.2	5580.8	5834.7	6084.3	6473.5	6587.8	6790.9
17.5°	6181.6	6139.3	6037.7	5843.1	5652.7	5809.3	6008.1	6236.6	6592.0	6761.3	7061.7
20°	6867.0	6799.3	6697.8	6317.0	6152.0	5982.7	6194.3	6465.1	6786.6	6939.0	7247.8
22.5°	7683.6	7683.6	7455.2	6994.0	6651.2	6490.5	6579.3	6735.9	7002.4	7209.8	7514.4
25°	8534.1	8508.7	8301.4	7823.3	7243.6	7053.2	7154.7	7264.8	7336.7	7450.9	7654.0
27.5°	9507.2	9359.1	9096.8	8567.9	8056.0	7687.9	7797.9	7700.6	7611.7	7670.9	7962.9
30°	10167.3	10260.4	9926.1	9418.4	8936.0	8525.6	8546.8	8462.1	8056.0	8140.6	8314.1
32.5°	10852.7	10911.9	10725.8	10446.5	9964.2	9486.1	9312.6	9240.7	8936.0	8974.1	8804.9
35°	11423.9	11538.1	11373.1	11250.4	11110.8	10725.8	10247.7	10480.4	9989.6	9896.5	9456.5
37.5°	11948.6	11914.7	12109.3	11982.4	11952.8	11682.0	11157.3	11203.9	10873.9	10852.7	10345.0
40°	12418.2	12426.7	12693.2	12752.5	12634.0	12151.6	11390.1	11758.2	12024.7	12050.1	11398.5
42.5°	12807.5	12921.7	13150.2	13628.3	13450.6	12646.7	11631.2	12033.2	13023.2	13179.8	12397.0
45°	13145.9	13378.7	13662.1	14089.5	13987.9	13349.0	12232.0	12600.1	14089.5	14499.9	13336.3
47.5°	13167.1	13471.7	13780.6	14415.3	14542.2	13725.6	12854.0	13497.1	14935.7	15380.0	14021.8
50°	13082.5	13243.3	13861.0	14550.7	14838.4	14339.1	13725.6	14250.3	15756.5	16035.8	14368.7
52.5°	12079.7	12202.4	13442.1	14677.6	15371.5	15033.0	14880.7	15299.6	16594.3	16801.6	14694.5
55°	10070.0	10048.8	11753.9	14038.7	15616.9	16061.2	15968.1	16116.2	17563.2	17749.4	14774.9
57.5°	6888.2	7273.2	8745.6	11690.5	14114.9	15820.0	15917.3	15671.9	16433.5	16505.4	12879.4
60°	3714.9	3875.7	5060.4	7802.1	10746.9	12892.1	13145.9	12701.7	12642.5	12439.4	9194.1
62.5°	1476.6	1557.0	2229.8	3863.0	5855.8	7836.0	8381.8	8199.8	7810.6	7277.4	4760.0
65°	702.4	753.1	1108.5	1806.7	2597.9	3266.4	3812.2	3981.4	2936.4	2644.4	1569.7
67.5°	478.1	516.2	808.1	1032.4	926.6	968.9	1260.9	1172.0	689.7	588.1	435.8
70°	363.9	389.3	647.4	702.4	414.6	291.9	325.8	304.6	283.5	287.7	283.5
72.5°	258.1	279.3	473.9	414.6	181.9	135.4	173.5	207.3	207.3	207.3	203.1
75°	156.5	177.7	275.0	160.8	71.9	71.9	110.0	139.6	148.1	152.3	143.9
77.5°	80.4	101.5	93.1	46.5	46.5	55.0	80.4	97.3	105.8	105.8	101.5
80°	16.9	16.9	16.9	25.4	46.5	59.2	80.4	88.9	101.5	101.5	93.1
82.5°	0.0	4.2	12.7	25.4	42.3	55.0	76.2	88.9	101.5	105.8	97.3
85°	0.0	4.2	8.5	16.9	29.6	33.8	29.6	25.4	25.4	25.4	25.4
87.5°	0.0	0.0	4.2	4.2	4.2	8.5	8.5	8.5	8.5	8.5	8.5
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: P532327

CATALOG NUMBER: GALN-SA7C-830-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3
2.5°	6143.5	6156.2	6135.1	6130.8	6113.9	6164.7	6042.0	6012.4	6088.5	6016.6	6033.5
5°	6223.9	6253.5	6215.4	6152.0	6058.9	5915.0	5792.3	5631.6	5555.4	5500.4	5491.9
7.5°	6283.1	6304.3	6266.2	6063.1	5783.9	5420.0	5149.2	4950.4	4793.8	4747.3	4671.1
10°	6524.3	6528.5	6338.1	5889.7	5343.8	4865.7	4451.1	4146.5	3989.9	3892.6	3850.3
12.5°	6685.1	6676.6	6291.6	5546.9	4819.2	4184.5	3710.7	3342.5	3198.7	3152.2	3122.5
15°	6888.2	6841.6	6181.6	5195.8	4142.2	3456.8	3029.4	2775.6	2762.9	2733.3	2762.9
17.5°	7049.0	6917.8	6020.8	4556.9	3494.9	2847.5	2568.3	2585.2	2619.0	2648.7	2652.9
20°	7311.3	7040.5	5652.7	3998.4	2894.1	2441.3	2437.1	2513.3	2597.9	2631.7	2665.6
22.5°	7510.2	7091.3	5259.2	3401.8	2403.3	2276.3	2348.2	2462.5	2526.0	2559.8	2610.6
25°	7582.1	6951.7	4734.6	2805.2	2166.3	2200.2	2310.2	2386.3	2466.7	2504.8	2483.6
27.5°	7654.0	6879.7	4108.4	2310.2	2039.4	2149.4	2242.5	2318.6	2344.0	2394.8	2428.6
30°	7827.5	6630.1	3545.6	1997.1	1975.9	2115.5	2183.2	2208.6	2276.3	2305.9	2305.9
32.5°	7967.1	6532.8	2949.1	1849.0	1967.4	2132.5	2140.9	2140.9	2149.4	2128.2	2119.8
35°	8254.8	6198.5	2415.9	1760.1	1963.2	2136.7	2157.8	2085.9	1891.3	1815.1	1794.0
37.5°	8610.2	5982.7	2022.5	1739.0	1992.8	2187.5	2221.3	1950.5	1696.7	1574.0	1552.8
40°	9041.8	5830.4	1764.4	1730.5	2060.5	2305.9	2204.4	1844.7	1514.7	1337.0	1328.6
42.5°	9545.3	5690.8	1590.9	1726.3	2145.2	2428.6	2187.5	1755.9	1328.6	1210.1	1227.0
45°	9947.3	5614.6	1472.4	1696.7	2174.8	2500.6	2200.2	1599.3	1252.4	1176.2	1184.7
47.5°	10260.4	5453.9	1375.1	1645.9	2170.5	2526.0	2085.9	1535.9	1214.3	1235.5	1256.6
50°	10268.8	5238.1	1252.4	1535.9	2107.1	2479.4	1954.8	1476.6	1205.9	1294.7	1337.0
52.5°	10154.6	4933.4	1121.2	1379.3	1959.0	2318.6	1836.3	1451.3	1167.8	1159.3	1210.1
55°	9748.4	4362.2	901.2	1117.0	1654.4	1912.4	1730.5	1404.7	1053.5	956.2	964.7
57.5°	7878.3	3126.8	664.3	799.7	1172.0	1400.5	1561.3	1383.6	947.8	812.4	816.6
60°	4878.4	1772.8	486.6	545.8	723.5	850.4	1265.1	1286.2	846.2	685.4	677.0
62.5°	2504.8	875.8	376.6	385.0	444.3	499.3	867.4	1078.9	765.8	651.6	651.6
65°	837.8	431.6	330.0	296.2	296.2	308.9	524.7	748.9	647.4	545.8	545.8
67.5°	359.6	321.6	287.7	258.1	236.9	224.2	296.2	435.8	482.3	414.6	397.7
70°	279.3	270.8	249.6	215.8	186.2	169.2	173.5	224.2	275.0	266.6	258.1
72.5°	207.3	207.3	198.9	169.2	143.9	122.7	114.2	118.5	131.2	135.4	139.6
75°	143.9	148.1	148.1	131.2	105.8	88.9	76.2	63.5	50.8	42.3	38.1
77.5°	97.3	101.5	110.0	97.3	80.4	59.2	46.5	33.8	21.2	8.5	8.5
80°	84.6	97.3	105.8	97.3	84.6	63.5	46.5	25.4	12.7	0.0	0.0
82.5°	88.9	97.3	110.0	93.1	80.4	59.2	46.5	29.6	12.7	4.2	0.0
85°	21.2	21.2	25.4	29.6	38.1	42.3	33.8	21.2	12.7	4.2	0.0
87.5°	8.5	8.5	8.5	8.5	8.5	4.2	4.2	4.2	4.2	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)