

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: P533471

Luminaire Tested: **GALN-SA8D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533471  
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-SA8D-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 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: 27928 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

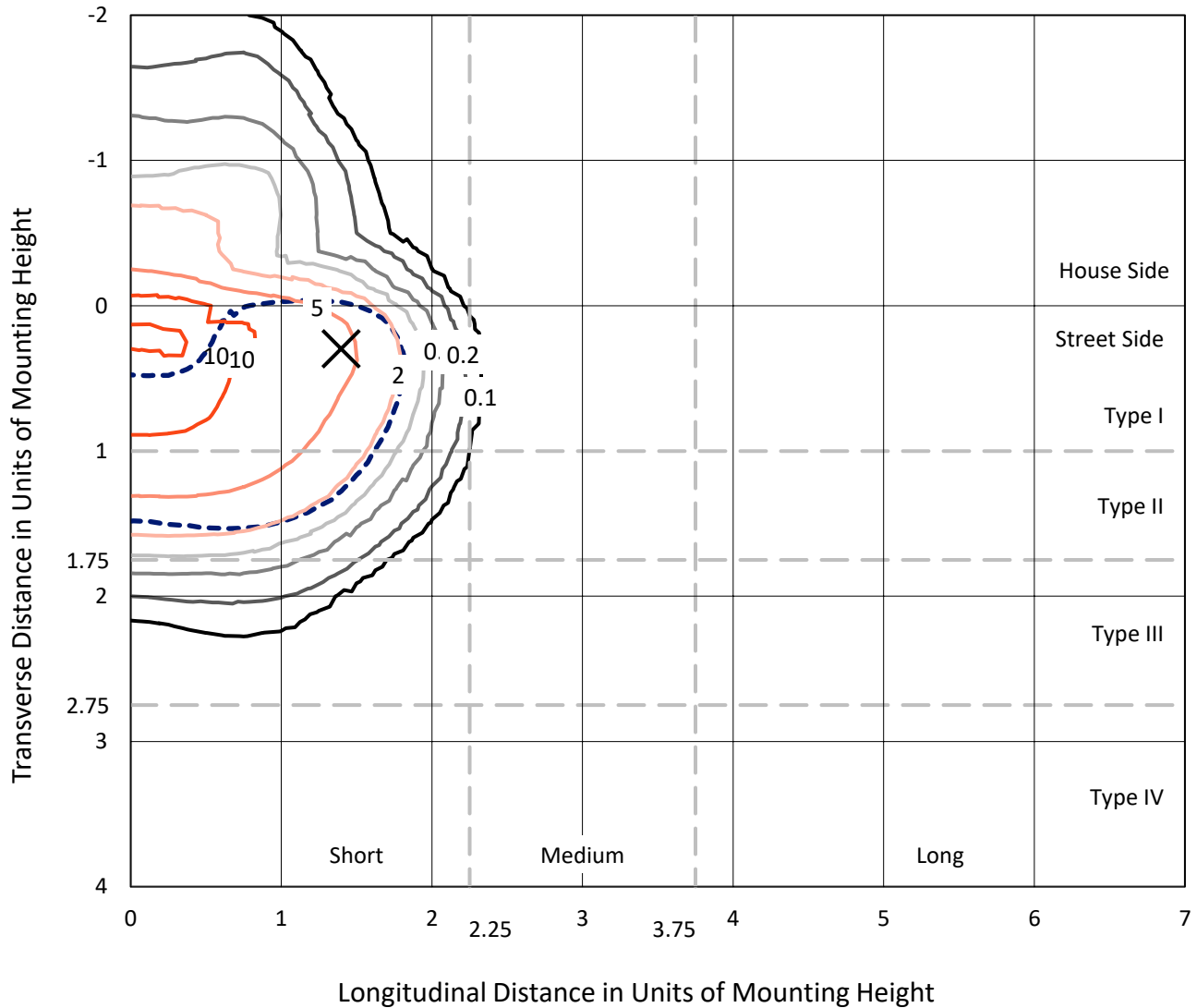
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

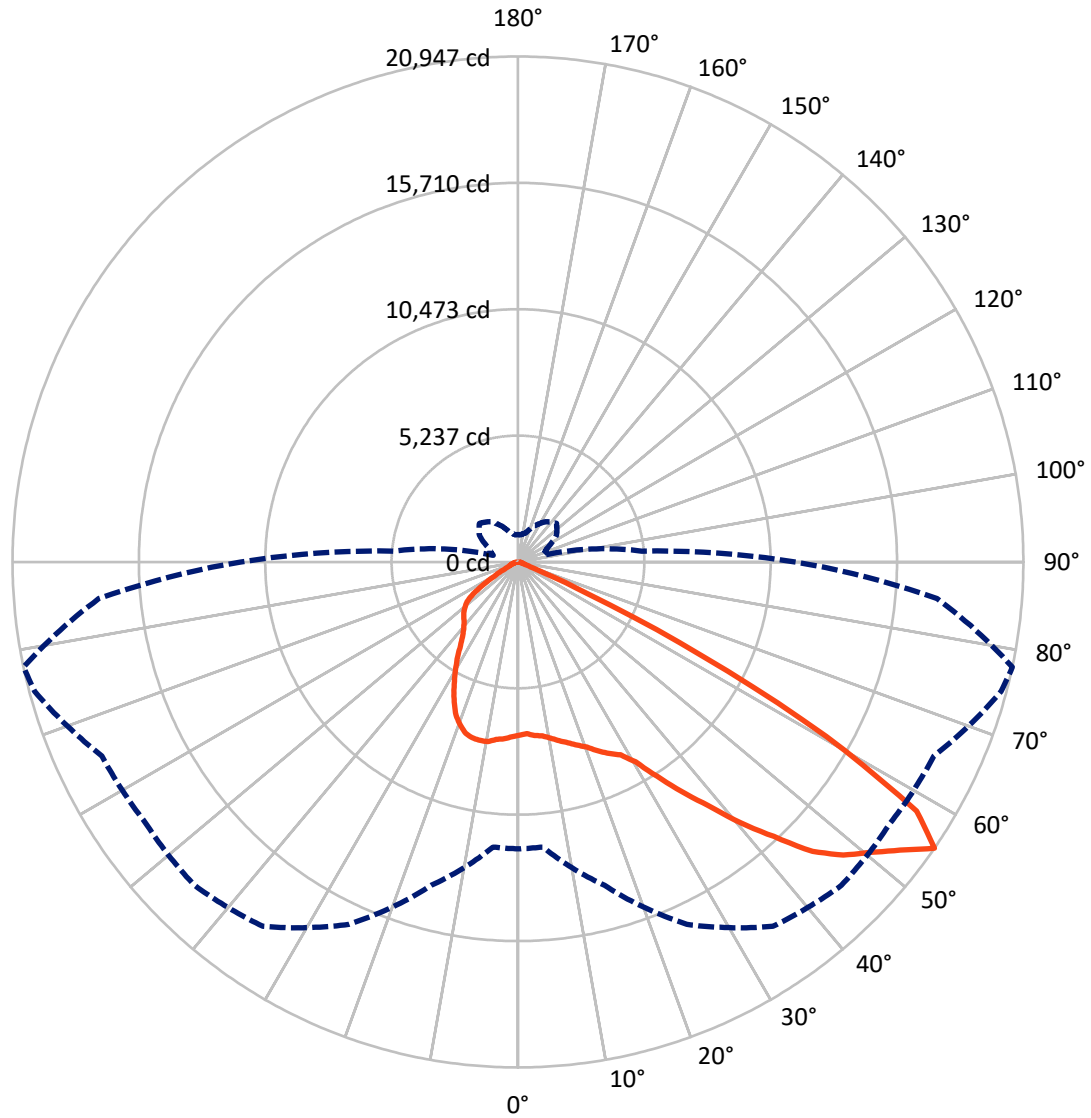
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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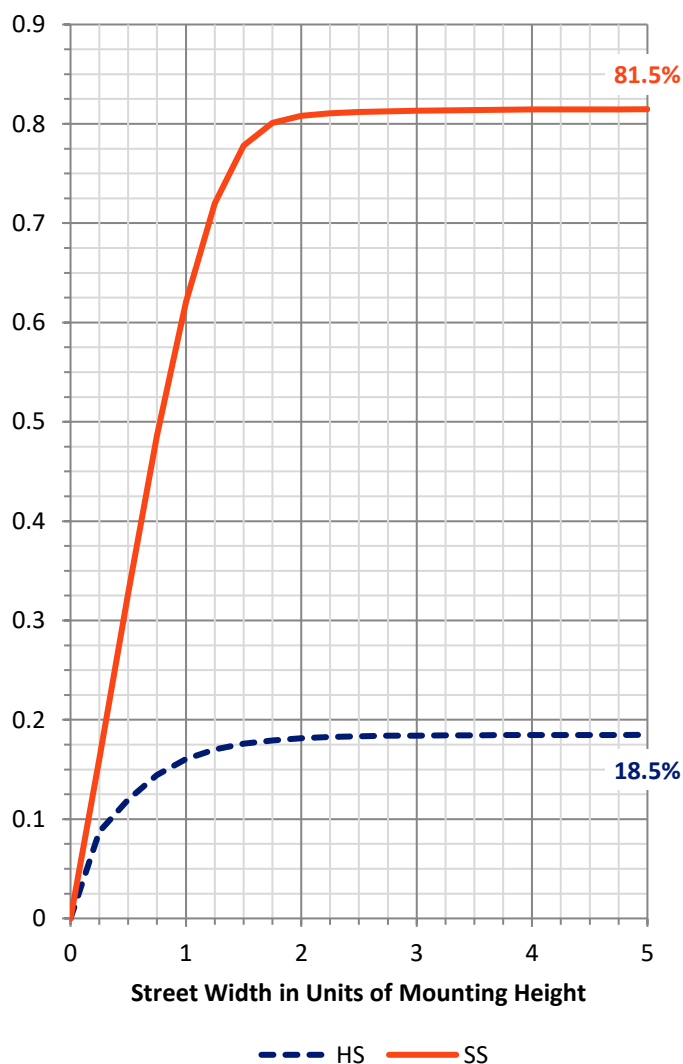
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5187.3	0.0	5187.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	22740.7	0.0	22740.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	27928.0	0.0	27928.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	640.3	2.3
10°-20°	1694.4	6.1
20°-30°	2970.1	10.6
30°-40°	4897.3	17.5
40°-50°	7126.1	25.5
50°-60°	8074.6	28.9
60°-70°	2308.7	8.3
70°-80°	179.3	0.6
80°-90°	37.3	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°	27928.0	100.0
0°-180°	27928.0	100.0

**Coefficient of Utilization**



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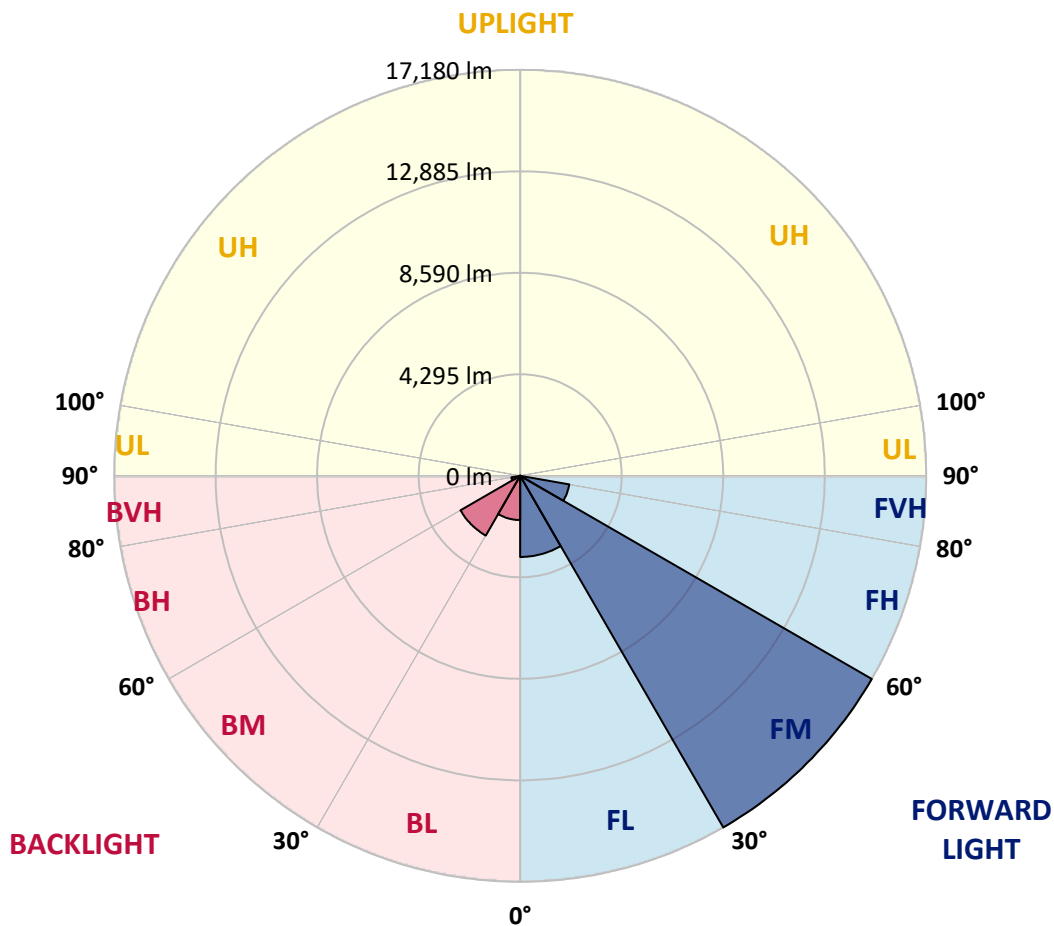
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3433.2	12.3			
FM (30°-60°)	17180.1	61.5			
FH (60°-80°)	2109.3	7.6			G2/5000
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	1871.6	6.7	B3/2500		
BM (30°-60°)	2917.9	10.4	B3/5000		
BH (60°-80°)	378.6	1.4	B1/500		G1/500
BVH (80°-90°)	19.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3
2.5°	6750.9	6815.8	6825.8	6905.7	6900.7	7035.5	7075.4	7080.4	7170.3	7125.4	7240.2
5°	6561.1	6526.2	6511.2	6651.0	6691.0	6810.8	6910.7	6970.6	7155.3	7220.3	7340.1
7.5°	6391.4	6391.4	6401.4	6526.2	6511.2	6666.0	6770.9	6955.6	7225.2	7280.2	7425.0
10°	6226.6	6166.7	6241.6	6371.4	6481.2	6551.2	6770.9	6945.6	7260.2	7420.0	7619.7
12.5°	6141.7	6171.7	6181.7	6276.5	6396.4	6606.1	6725.9	7015.5	7509.9	7604.7	7819.4
15°	6676.0	6616.1	6471.3	6386.4	6486.2	6586.1	6885.7	7180.3	7639.7	7774.5	8014.2
17.5°	7295.2	7245.2	7125.4	6895.7	6671.0	6855.7	7090.4	7360.1	7779.5	7979.2	8333.7
20°	8104.1	8024.2	7904.3	7454.9	7260.2	7060.5	7310.1	7629.7	8009.2	8188.9	8553.5
22.5°	9067.8	9067.8	8798.1	8253.9	7849.4	7659.7	7764.5	7949.3	8263.8	8508.5	8868.0
25°	10071.4	10041.4	9796.8	9232.5	8548.5	8323.8	8443.6	8573.4	8658.3	8793.1	9032.8
27.5°	11219.9	11045.1	10735.5	10111.3	9507.2	9072.8	9202.6	9087.7	8982.9	9052.8	9397.3
30°	11998.8	12108.7	11714.2	11115.0	10545.8	10061.4	10086.4	9986.5	9507.2	9607.0	9811.8
32.5°	12807.7	12877.6	12657.9	12328.4	11759.1	11194.9	10990.2	10905.3	10545.8	10590.7	10391.0
35°	13481.8	13616.6	13421.9	13277.1	13112.3	12657.9	12093.7	12368.3	11789.1	11679.2	11159.9
37.5°	14101.0	14061.0	14290.7	14140.9	14106.0	13786.4	13167.2	13222.1	12832.7	12807.7	12208.5
40°	14655.2	14665.2	14979.8	15049.7	14909.9	14340.6	13441.9	13876.3	14190.8	14220.8	13451.8
42.5°	15114.6	15249.4	15519.0	16083.3	15873.6	14924.8	13726.5	14200.8	15369.2	15554.0	14630.2
45°	15514.1	15788.7	16123.2	16627.5	16507.7	15753.7	14435.5	14869.9	16627.5	17111.9	15738.7
47.5°	15539.0	15898.5	16263.0	17012.0	17161.8	16198.1	15169.5	15928.5	17626.2	18150.5	16547.7
50°	15439.2	15628.9	16357.9	17171.8	17511.4	16922.2	16198.1	16817.3	18594.9	18924.4	16957.1
52.5°	14255.8	14400.6	15863.6	17321.6	18140.5	17741.0	17561.3	18055.6	19583.6	19828.2	17341.6
55°	11884.0	11859.0	13871.3	16567.6	18430.1	18954.4	18844.6	19019.3	20727.0	20946.7	17436.5
57.5°	8129.0	8583.4	10321.1	13796.4	16657.5	18669.8	18784.6	18495.0	19393.8	19478.7	15199.5
60°	4384.1	4573.8	5971.9	9207.6	12682.9	15214.5	15514.1	14989.8	14919.9	14680.2	10850.3
62.5°	1742.6	1837.5	2631.4	4558.8	6910.7	9247.5	9891.6	9676.9	9217.6	8588.4	5617.4
65°	828.9	888.8	1308.2	2132.1	3065.9	3854.8	4498.9	4698.7	3465.3	3120.8	1852.5
67.5°	564.2	609.2	953.7	1218.4	1093.5	1143.5	1488.0	1383.1	813.9	694.1	514.3
70°	429.4	459.4	764.0	828.9	489.3	344.5	384.5	359.5	334.5	339.5	334.5
72.5°	304.6	329.6	559.2	489.3	214.7	159.8	204.7	244.7	244.7	244.7	239.7
75°	184.8	209.7	324.6	189.7	84.9	84.9	129.8	164.8	174.8	179.8	169.8
77.5°	94.9	119.8	109.9	54.9	54.9	64.9	94.9	114.8	124.8	124.8	119.8
80°	20.0	20.0	20.0	30.0	54.9	69.9	94.9	104.9	119.8	119.8	109.9
82.5°	0.0	5.0	15.0	30.0	49.9	64.9	89.9	104.9	119.8	124.8	114.8
85°	0.0	5.0	10.0	20.0	35.0	39.9	35.0	30.0	30.0	30.0	30.0
87.5°	0.0	0.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3	7180.3
2.5°	7250.2	7265.2	7240.2	7235.2	7215.3	7275.2	7130.4	7095.4	7185.3	7100.4	7120.4
5°	7345.1	7380.0	7335.1	7260.2	7150.3	6980.6	6835.8	6646.0	6556.1	6491.2	6481.2
7.5°	7415.0	7440.0	7395.0	7155.3	6825.8	6396.4	6076.8	5842.1	5657.4	5602.4	5512.6
10°	7699.6	7704.6	7479.9	6950.6	6306.5	5742.2	5252.9	4893.4	4708.6	4593.8	4543.9
12.5°	7889.3	7879.4	7425.0	6546.2	5687.3	4938.3	4379.1	3944.7	3774.9	3720.0	3685.0
15°	8129.0	8074.1	7295.2	6131.7	4888.4	4079.5	3575.2	3275.6	3260.6	3225.6	3260.6
17.5°	8318.8	8164.0	7105.4	5377.7	4124.4	3360.5	3030.9	3050.9	3090.8	3125.8	3130.8
20°	8628.4	8308.8	6671.0	4718.6	3415.4	2881.1	2876.1	2966.0	3065.9	3105.8	3145.8
22.5°	8863.0	8368.7	6206.6	4014.6	2836.2	2686.4	2771.3	2906.1	2981.0	3020.9	3080.8
25°	8947.9	8203.9	5587.5	3310.5	2556.5	2596.5	2726.3	2816.2	2911.1	2956.0	2931.0
27.5°	9032.8	8119.0	4848.5	2726.3	2406.8	2536.6	2646.4	2736.3	2766.3	2826.2	2866.1
30°	9237.5	7824.4	4184.4	2356.8	2331.9	2496.6	2576.5	2606.5	2686.4	2721.3	2721.3
32.5°	9402.3	7709.6	3480.3	2182.1	2321.9	2516.6	2526.6	2526.6	2536.6	2511.6	2501.6
35°	9741.8	7315.1	2851.2	2077.2	2316.9	2521.6	2546.6	2461.7	2232.0	2142.1	2117.1
37.5°	10161.3	7060.5	2386.8	2052.2	2351.8	2581.5	2621.5	2301.9	2002.3	1857.5	1832.5
40°	10670.6	6880.7	2082.2	2042.2	2431.7	2721.3	2601.5	2177.1	1787.6	1577.9	1567.9
42.5°	11264.8	6715.9	1877.5	2037.2	2531.6	2866.1	2581.5	2072.2	1567.9	1428.1	1448.0
45°	11739.1	6626.1	1737.7	2002.3	2566.5	2951.0	2596.5	1887.5	1478.0	1388.1	1398.1
47.5°	12108.7	6436.3	1622.8	1942.4	2561.5	2981.0	2461.7	1812.6	1433.1	1458.0	1483.0
50°	12118.6	6181.7	1478.0	1812.6	2486.6	2926.0	2306.9	1742.6	1423.1	1527.9	1577.9
52.5°	11983.8	5822.1	1323.2	1627.8	2311.9	2736.3	2167.1	1712.7	1378.1	1368.2	1428.1
55°	11504.5	5148.0	1063.6	1318.2	1952.4	2257.0	2042.2	1657.8	1243.3	1128.5	1138.5
57.5°	9297.4	3690.0	783.9	943.7	1383.1	1652.8	1842.5	1632.8	1118.5	958.7	963.7
60°	5757.2	2092.2	574.2	644.1	853.8	1003.6	1493.0	1518.0	998.7	808.9	798.9
62.5°	2956.0	1033.6	444.4	454.4	524.3	589.2	1023.6	1273.3	903.8	769.0	769.0
65°	988.7	509.3	389.5	349.5	349.5	364.5	619.2	883.8	764.0	644.1	644.1
67.5°	424.4	379.5	339.5	304.6	279.6	264.6	349.5	514.3	569.2	489.3	469.4
70°	329.6	319.6	294.6	254.7	219.7	199.7	204.7	264.6	324.6	314.6	304.6
72.5°	244.7	244.7	234.7	199.7	169.8	144.8	134.8	139.8	154.8	159.8	164.8
75°	169.8	174.8	174.8	154.8	124.8	104.9	89.9	74.9	59.9	49.9	44.9
77.5°	114.8	119.8	129.8	114.8	94.9	69.9	54.9	39.9	25.0	10.0	10.0
80°	99.9	114.8	124.8	114.8	99.9	74.9	54.9	30.0	15.0	0.0	0.0
82.5°	104.9	114.8	129.8	109.9	94.9	69.9	54.9	35.0	15.0	5.0	0.0
85°	25.0	25.0	30.0	35.0	44.9	49.9	39.9	25.0	15.0	5.0	0.0
87.5°	10.0	10.0	10.0	10.0	10.0	5.0	5.0	5.0	5.0	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)