

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: P534249

Luminaire Tested: **GALN-SA9D-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35025 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

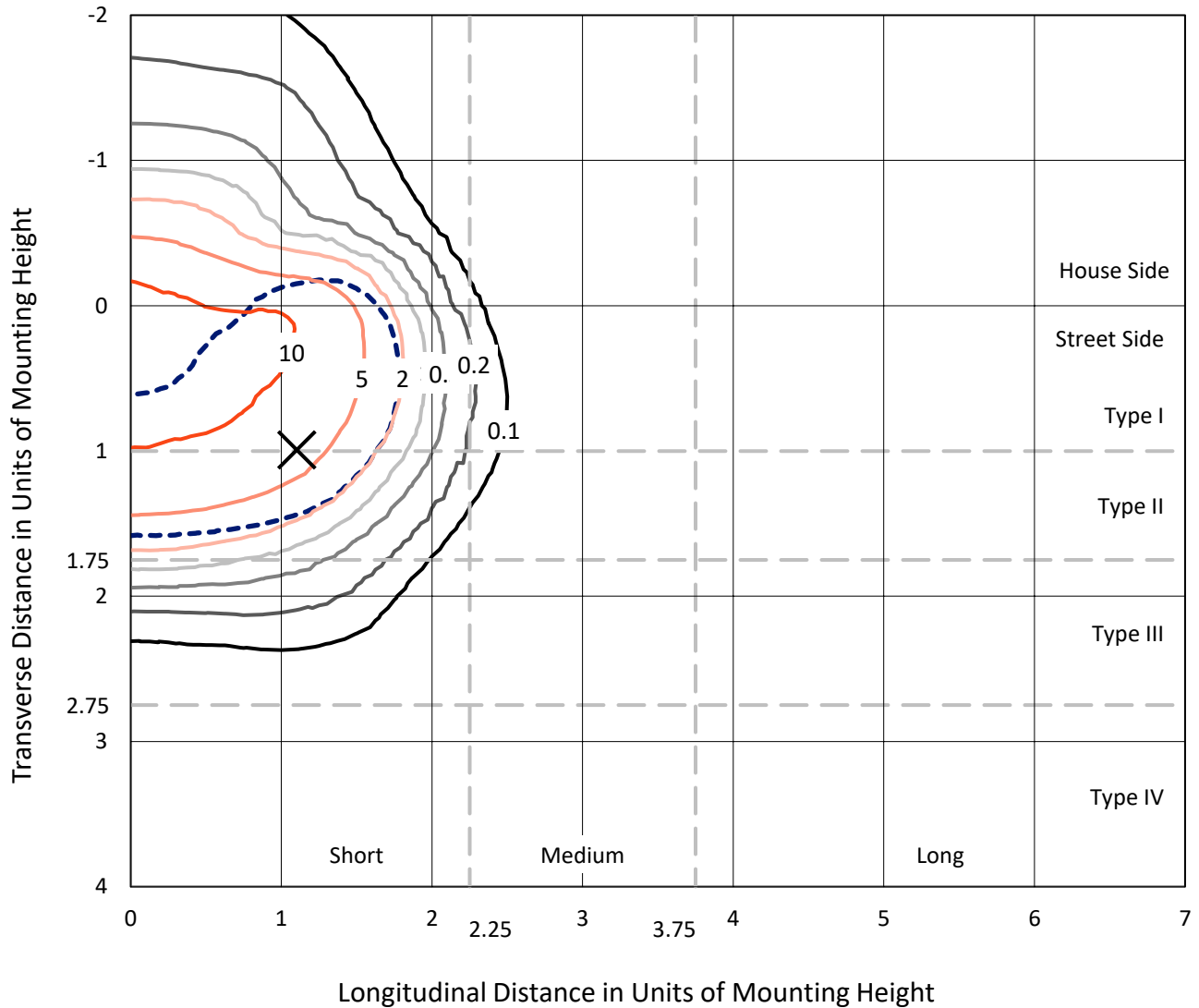
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

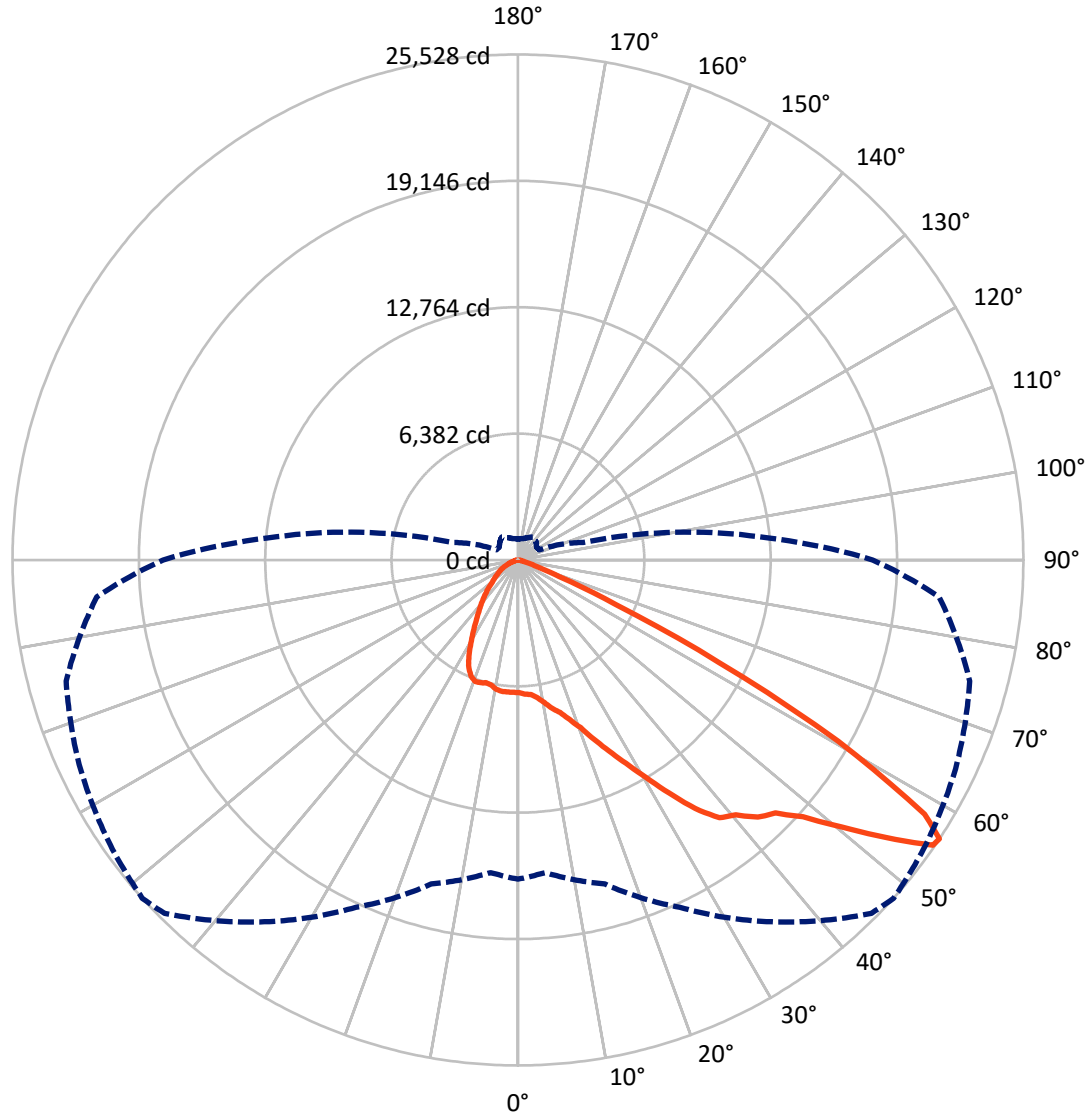
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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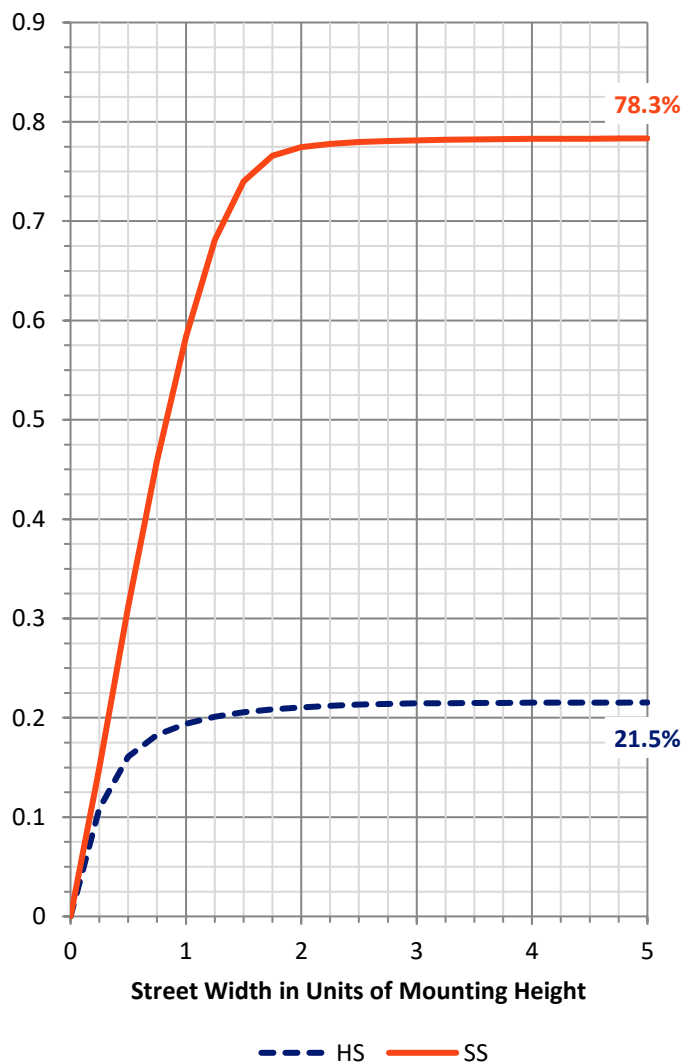
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7617.3	0.0	7617.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	27407.7	0.0	27407.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	35025.0	0.0	35025.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	651.7	1.9
10°-20°	2082.6	5.9
20°-30°	3777.4	10.8
30°-40°	5933.5	16.9
40°-50°	8656.0	24.7
50°-60°	10428.8	29.8
60°-70°	3053.4	8.7
70°-80°	387.4	1.1
80°-90°	54.3	0.2
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°	35025.0	100.0
0°-180°	35025.0	100.0

**Coefficient of Utilization**

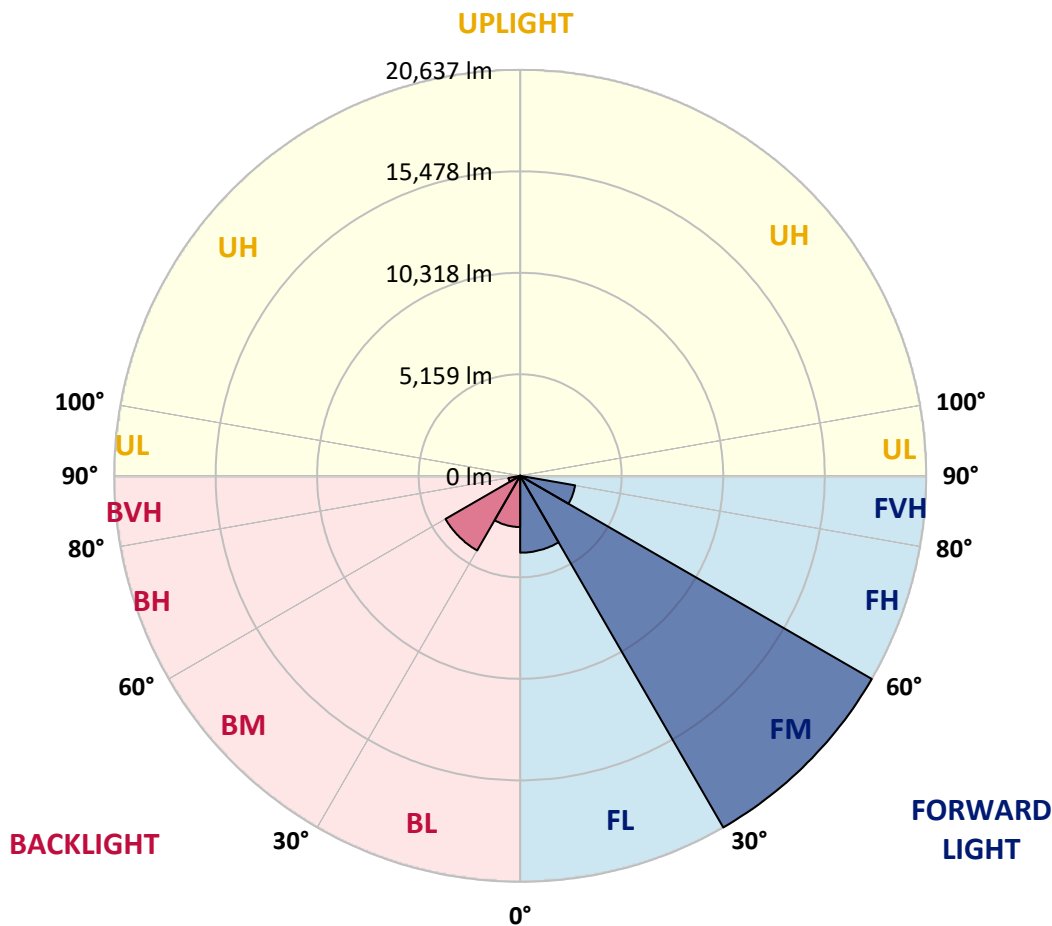


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3908.1	11.2			
FM (30°-60°)	20636.8	58.9			
FH (60°-80°)	2835.5	8.1			G2/5000
FVH (80°-90°)	27.3	0.1			G1/100
BL (0°-30°)	2603.6	7.4	B4/5000		
BM (30°-60°)	4381.4	12.5	B3/5000		
BH (60°-80°)	605.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	27.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8
2.5°	6811.0	6779.1	6779.1	6728.1	6785.4	6759.9	6779.1	6715.3	6779.1	6683.4	6759.9
5°	6842.8	6849.2	6823.7	6855.6	6855.6	6893.9	6830.1	6887.5	6919.4	6849.2	6817.3
7.5°	7008.7	7021.4	7015.0	6989.5	7040.5	7034.2	7027.8	6983.1	6995.9	6970.4	6932.1
10°	7333.9	7327.5	7359.4	7295.6	7257.4	7302.0	7314.8	7244.6	7193.6	7174.5	7053.3
12.5°	7805.8	7729.3	7684.6	7620.9	7640.0	7576.2	7691.0	7569.9	7544.3	7429.6	7308.4
15°	8188.5	8175.7	8182.1	8080.0	7965.3	7990.8	7990.8	7927.0	7888.7	7748.4	7576.2
17.5°	8972.9	8705.0	8762.4	8634.9	8539.2	8532.8	8475.4	8488.2	8386.2	8092.8	7831.3
20°	9585.1	9470.3	9381.0	9164.2	9017.5	9062.1	9036.6	8972.9	8941.0	8558.3	8188.5
22.5°	10133.5	10171.8	10025.1	9967.7	9763.6	9782.8	9833.8	9776.4	9534.1	9138.7	8590.2
25°	10905.2	10860.5	10662.8	10592.7	10401.4	10471.5	10669.2	10624.6	10471.5	9757.3	8902.7
27.5°	11817.1	11664.1	11702.3	11383.5	11198.5	11396.2	11632.2	11855.4	11421.7	10484.3	9272.6
30°	12461.2	12301.8	12289.1	12276.3	12231.7	12461.2	12735.5	12939.5	12588.8	11211.3	9884.8
32.5°	12780.1	12818.4	12926.8	12888.5	13277.5	13749.5	14036.4	14329.8	13889.8	12397.5	10694.7
35°	13628.3	13386.0	13628.3	13653.8	14055.6	15056.8	15420.3	16121.8	16013.4	14074.7	11683.2
37.5°	14125.7	14106.6	14138.5	14380.8	14769.8	16007.0	16523.6	17065.7	16861.6	15082.3	12914.0
40°	14948.4	14999.4	14993.0	15178.0	15605.3	16721.3	16931.7	17371.8	17390.9	16478.9	14725.2
42.5°	16268.5	16064.4	15930.5	16121.8	16721.3	17339.9	17760.8	17671.5	18302.9	18175.3	17052.9
45°	17454.7	17575.8	17378.1	17697.0	17913.8	18245.5	18232.7	18424.0	19227.6	19833.4	18806.7
47.5°	18564.3	18640.9	18736.5	18953.3	19425.3	19476.3	19367.9	19285.0	20394.6	21019.6	20165.0
50°	19227.6	19297.7	19744.1	20133.1	21013.2	21128.0	21191.8	20981.3	21733.8	21804.0	21446.9
52.5°	19049.0	19125.5	19750.5	21032.3	22435.3	23487.6	23296.3	22939.2	22894.5	23168.7	22633.0
55°	17467.4	17397.3	18258.2	20254.3	22881.8	25407.2	25432.7	25056.4	24335.8	24150.8	22454.5
56°	16121.8	15847.6	16944.5	19355.1	22307.8	25241.4	25528.3	25126.6	24450.6	23621.5	21351.2
57.5°	13207.4	13468.9	14559.4	16555.5	20324.5	24048.8	24214.6	24119.0	23608.8	22218.5	18787.5
60°	7282.9	7742.0	8705.0	11147.5	14470.1	18455.9	18589.8	19367.9	19463.5	17014.6	12926.8
62.5°	3093.0	3042.0	4043.2	5841.6	8239.5	11141.1	11389.9	12187.0	12333.7	9808.3	6485.7
65°	1256.3	1326.5	1830.3	2939.9	4355.7	5076.3	5427.1	5688.6	6173.2	4049.6	2391.5
67.5°	829.0	822.7	1077.8	1677.2	2346.8	2263.9	2263.9	2391.5	2212.9	1651.7	1033.1
70°	593.1	612.2	771.7	1160.7	1460.4	1084.1	1039.5	994.9	1128.8	1090.5	835.4
72.5°	389.0	414.5	516.6	695.1	758.9	593.1	593.1	714.3	931.1	880.1	682.4
75°	255.1	261.5	318.9	401.8	376.3	306.1	338.0	478.3	676.0	650.5	484.7
77.5°	172.2	178.6	216.8	261.5	210.5	172.2	184.9	242.3	331.6	331.6	255.1
80°	63.8	70.2	89.3	82.9	95.7	121.2	133.9	165.8	197.7	197.7	172.2
82.5°	0.0	6.4	19.1	44.6	70.2	95.7	108.4	127.5	146.7	165.8	159.4
85°	0.0	6.4	19.1	31.9	51.0	57.4	63.8	44.6	38.3	38.3	31.9
87.5°	0.0	0.0	6.4	6.4	6.4	6.4	6.4	6.4	12.8	6.4	6.4
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°	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8	6689.8
2.5°	6689.8	6683.4	6683.4	6664.3	6702.5	6683.4	6696.2	6689.8	6606.9	6670.7	6626.0
5°	6759.9	6804.6	6734.4	6721.7	6670.7	6689.8	6689.8	6626.0	6683.4	6677.0	6664.3
7.5°	6938.5	6862.0	6785.4	6708.9	6696.2	6677.0	6606.9	6581.4	6626.0	6575.0	6651.5
10°	7015.0	7027.8	6913.0	6811.0	6715.3	6581.4	6485.7	6428.3	6358.2	6434.7	6479.3
12.5°	7365.8	7238.2	7040.5	6881.1	6555.9	6421.9	6326.3	6300.8	6421.9	6447.5	6402.8
15°	7487.0	7467.8	7212.7	6855.6	6517.6	6358.2	6377.3	6326.3	6339.0	6275.3	6288.0
17.5°	7735.7	7518.8	7219.1	6772.7	6511.2	6473.0	6358.2	6154.1	6039.3	5988.3	6032.9
20°	8009.9	7799.4	7365.8	6804.6	6568.6	6466.6	6090.3	5841.6	5605.6	5478.1	5484.5
22.5°	8252.2	7990.8	7302.0	6817.3	6619.6	6198.7	5745.9	5254.9	4961.5	4763.8	4770.2
25°	8545.6	8175.7	7327.5	6842.8	6485.7	5771.5	5121.0	4642.7	4291.9	4158.0	4202.6
27.5°	8711.4	8290.5	7467.8	6900.2	6135.0	5165.6	4464.1	4017.7	3813.6	3749.9	3743.5
30°	9208.8	8545.6	7640.0	6785.4	5548.3	4515.1	3864.6	3590.4	3392.7	3335.3	3348.1
32.5°	9948.6	9011.1	7863.2	6485.7	4948.8	3934.8	3475.6	3271.6	3086.6	2978.2	2965.4
35°	10567.2	9808.3	8099.2	6020.2	4253.7	3488.4	3201.4	2946.3	2665.7	2544.5	2512.7
37.5°	11747.0	10707.5	8048.2	5318.7	3590.4	3156.8	2908.0	2595.6	2353.2	2187.4	2168.3
40°	13315.8	11759.7	7799.4	4464.1	3099.4	2863.4	2595.6	2295.8	1996.1	1855.8	1843.0
42.5°	15222.6	13048.0	7346.7	3596.8	2608.3	2570.1	2327.7	1983.3	1715.5	1613.5	1619.8
45°	16772.3	14151.2	6887.5	2888.9	2244.8	2283.1	2072.6	1747.4	1562.4	1479.5	1479.5
47.5°	18149.8	14897.4	6390.1	2385.1	1906.8	1996.1	1811.2	1619.8	1460.4	1396.6	1383.9
50°	19476.3	15656.3	5892.6	1932.3	1626.2	1715.5	1696.4	1543.3	1415.8	1339.2	1345.6
52.5°	20305.3	15777.4	5261.3	1581.6	1422.1	1524.2	1587.9	1447.6	1307.3	1262.7	1250.0
55°	19291.3	14215.0	4081.5	1301.0	1205.3	1339.2	1460.4	1301.0	1192.6	1116.0	1109.7
56°	17926.6	12710.0	3411.9	1198.9	1141.5	1288.2	1415.8	1243.6	1122.4	1077.8	1045.9
57.5°	15178.0	10401.4	2519.0	1065.0	1058.6	1198.9	1345.6	1186.2	1045.9	1007.6	1007.6
60°	9463.9	5854.4	1524.2	892.8	918.3	1065.0	1211.7	1058.6	931.1	931.1	950.2
62.5°	4311.1	2436.1	924.7	758.9	790.8	918.3	1077.8	956.6	886.4	956.6	969.3
65°	1466.8	1052.3	669.6	605.8	625.0	758.9	924.7	969.3	963.0	1007.6	1033.1
67.5°	822.7	676.0	561.2	503.8	491.1	561.2	758.9	969.3	931.1	912.0	924.7
70°	695.1	574.0	497.4	446.4	427.3	452.8	586.7	733.4	656.9	637.7	625.0
72.5°	561.2	478.3	433.7	401.8	344.4	293.4	267.8	280.6	312.5	331.6	363.5
75°	395.4	363.5	363.5	325.2	248.7	184.9	146.7	121.2	82.9	57.4	63.8
77.5°	223.2	223.2	229.6	197.7	159.4	121.2	89.3	63.8	31.9	12.8	6.4
80°	153.1	165.8	178.6	159.4	133.9	108.4	76.5	44.6	19.1	0.0	0.0
82.5°	153.1	172.2	184.9	159.4	133.9	102.0	76.5	44.6	19.1	6.4	0.0
85°	31.9	38.3	44.6	51.0	76.5	76.5	57.4	38.3	19.1	6.4	0.0
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	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)