

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: P531581

Luminaire Tested: **GALN-SA6D-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25157 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

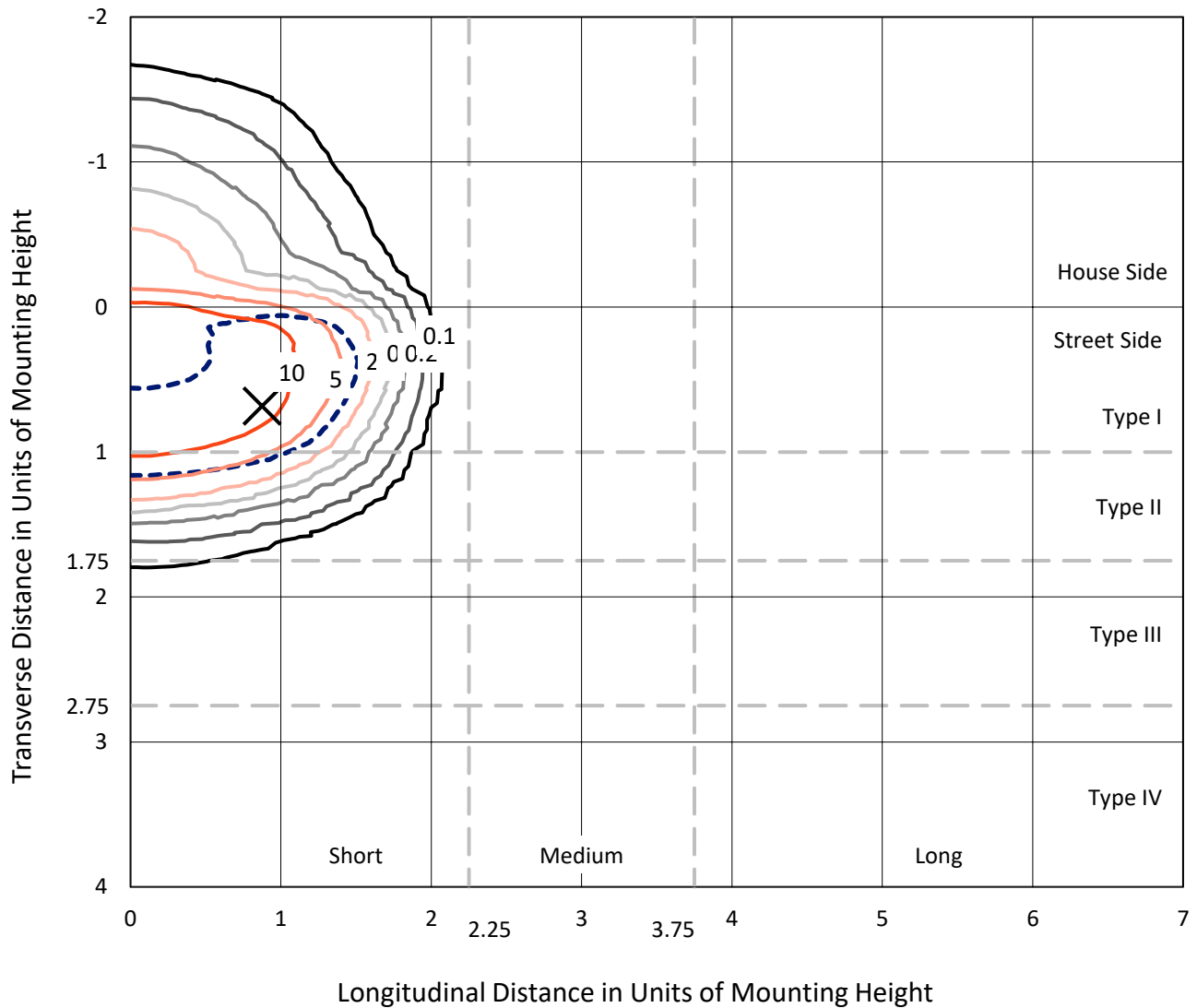
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

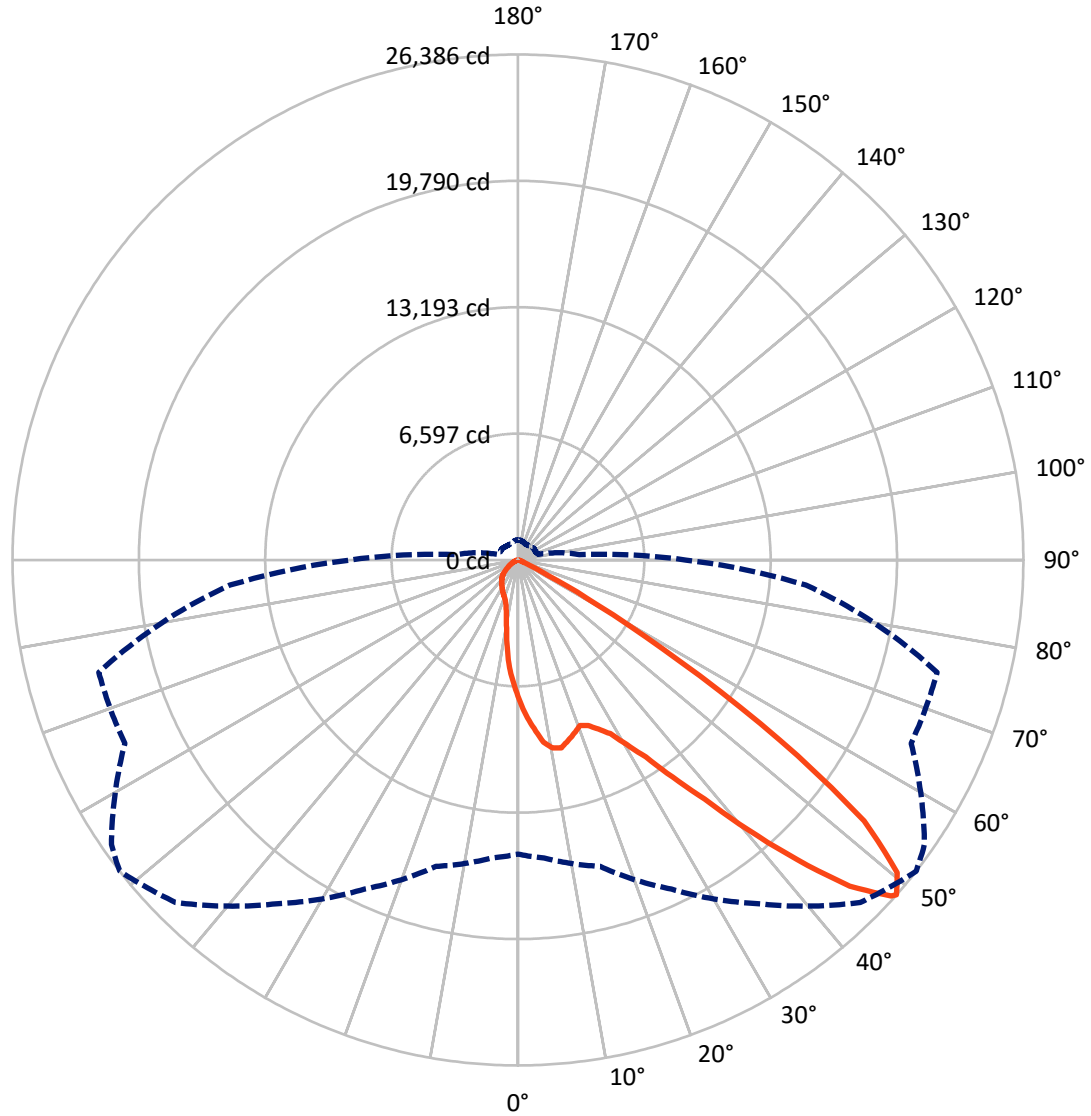
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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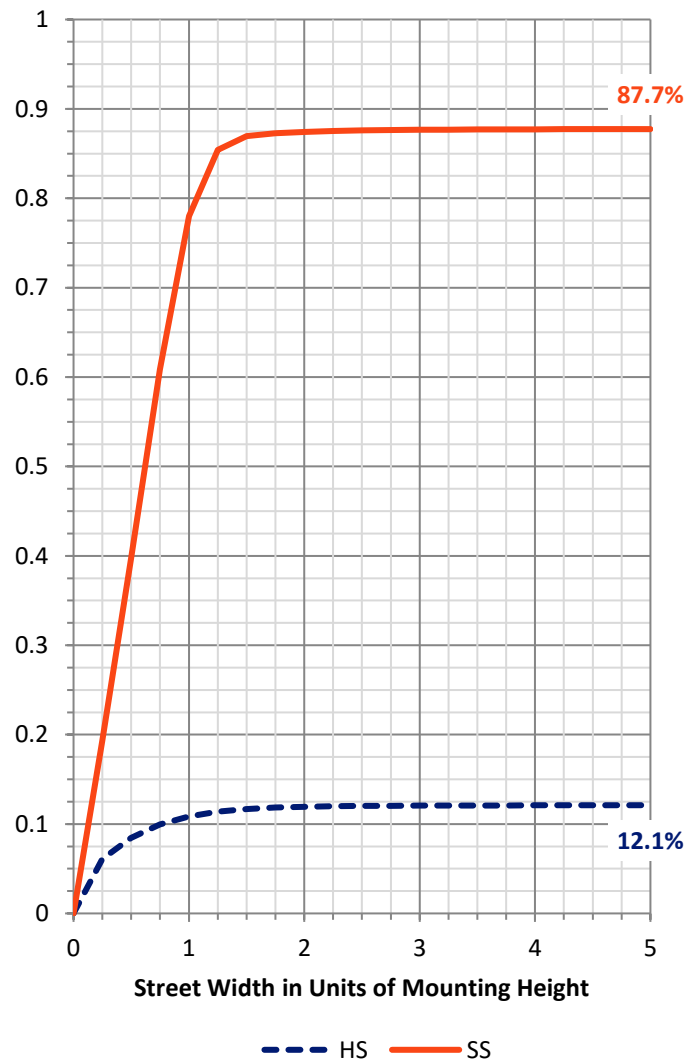
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3063.1	0.0	3063.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	22093.9	0.0	22093.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	25157.0	0.0	25157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.0	2.6
10°-20°	1737.7	6.9
20°-30°	2967.0	11.8
30°-40°	5463.8	21.7
40°-50°	8485.3	33.7
50°-60°	5106.7	20.3
60°-70°	590.6	2.3
70°-80°	114.3	0.5
80°-90°	26.4	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°	25157.0	100.0
0°-180°	25157.0	100.0



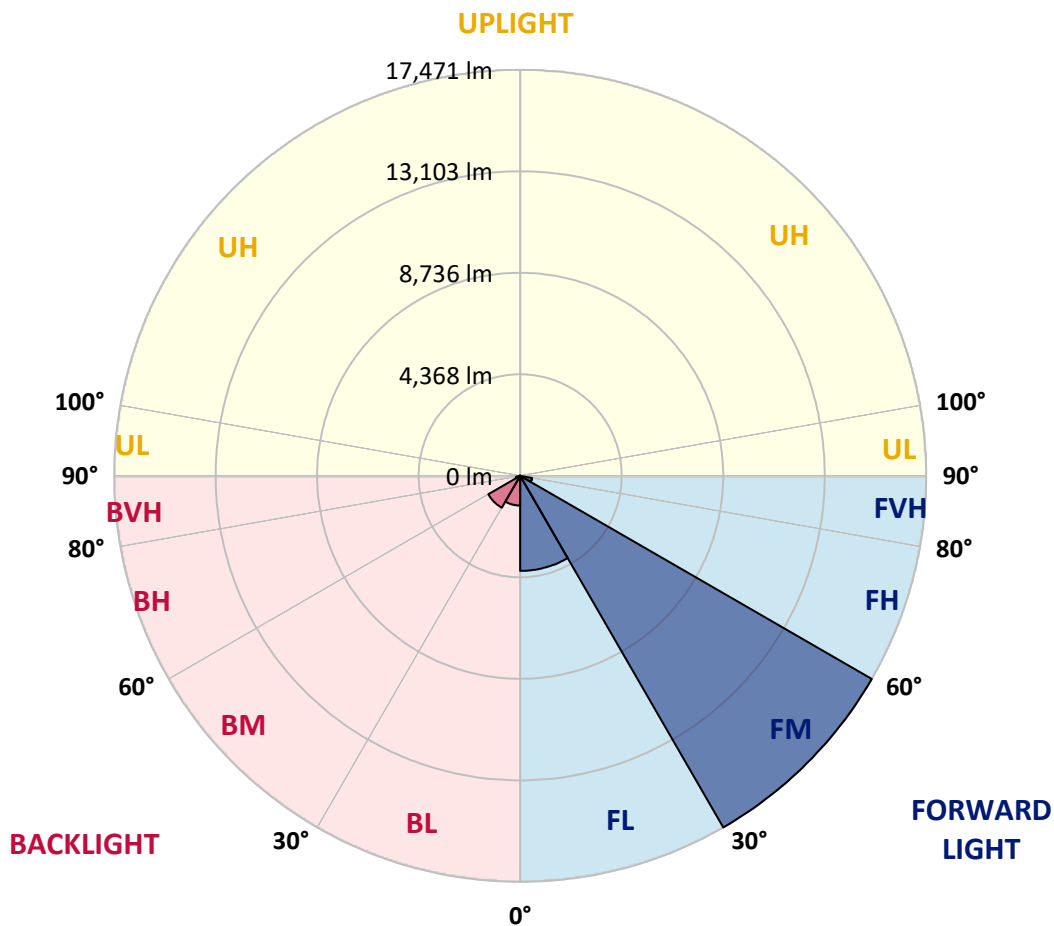
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4090.2	16.3			
FM (30°-60°)	17471.0	69.4			
FH (60°-80°)	520.1	2.1			G0/660
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1279.5	5.1	B3/2500		
BM (30°-60°)	1584.8	6.3	B2/2500		
BH (60°-80°)	184.9	0.7	B1/500		G1/500
BVH (80°-90°)	13.9	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°	52°	55°	65°	75°	85°
0°	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9
2.5°	8805.2	8603.5	8621.8	8489.8	8412.8	8288.1	8119.4	8086.4	7903.0	7653.7	7400.6
5°	9597.3	9549.7	9612.0	9421.3	9428.6	9223.3	8827.2	8834.5	8412.8	8005.7	7613.3
7.5°	9648.7	9538.7	9601.0	9769.7	9868.7	9832.0	9608.3	9414.0	9014.2	8416.5	7844.4
10°	8640.2	8849.2	8915.2	9193.9	9590.0	10008.1	9982.4	9993.4	9659.7	8878.5	8042.4
12.5°	8035.1	7895.7	8119.4	8288.1	8885.9	9696.3	10066.7	10147.4	10173.1	9325.9	8240.4
15°	7760.0	7760.0	7796.7	7844.4	8277.1	9025.2	9780.7	10015.4	10569.2	9912.7	8552.1
17.5°	7932.4	7925.0	7976.4	7877.4	8038.7	8614.5	9516.6	9784.4	11012.9	10488.5	8797.9
20°	8456.8	8482.5	8449.5	8163.4	8174.4	8607.2	9223.3	9645.0	11313.6	10987.2	9124.2
22.5°	9186.6	9201.3	9014.2	8702.5	8610.8	8823.5	9392.0	9714.7	11555.7	11585.0	9223.3
25°	10030.1	9971.4	9934.7	9494.6	9215.9	9399.3	9773.4	9960.4	11706.0	12098.4	9505.6
27.5°	11199.9	11082.6	10858.9	10466.5	10261.1	10000.7	10268.4	10576.5	12135.1	12817.2	9813.7
30°	12927.2	12824.6	12388.1	11882.1	11343.0	11086.3	11170.6	11339.3	12908.9	13649.7	10220.8
32.5°	15527.4	15311.0	14680.2	13715.7	12982.2	12274.5	12252.5	12432.2	13602.0	14801.2	10704.9
35°	18391.5	18325.5	17397.7	16403.8	14984.6	13891.7	13910.1	14005.4	14929.6	16312.2	11339.3
37.5°	20294.8	20657.9	20067.5	19000.3	17808.4	16246.1	15850.1	15883.1	16752.2	18101.8	12483.5
40°	21765.4	21457.4	21527.1	21277.7	20463.5	19400.0	18523.5	18351.2	18860.9	20082.1	13620.4
42.5°	21123.7	21138.3	21567.4	22157.8	22359.5	22282.5	21387.7	21061.3	20665.2	21703.1	14702.2
45°	19312.0	19689.7	20247.2	21809.4	23181.0	24468.2	24292.2	23749.4	21912.1	22986.6	15325.7
47.5°	16422.2	16407.5	17320.7	19352.3	22399.9	25414.4	26213.9	25832.5	22795.9	22843.6	15197.3
48°	15355.0	15619.0	16561.5	18952.6	21904.8	25275.0	26386.2	25905.8	22645.6	22652.9	15087.3
50°	11350.3	11302.6	12476.2	15410.0	19565.1	23749.4	25660.1	26034.2	22641.9	21688.4	14317.1
52.5°	5996.0	6201.4	7055.9	9689.0	13833.1	19436.7	22634.6	23217.7	21842.4	20111.5	13209.6
55°	2548.8	2303.1	2959.5	4375.1	7782.0	12985.9	16605.5	17903.8	18468.5	17797.4	11555.7
57.5°	909.5	993.8	1144.2	1646.6	3271.2	7107.2	9901.7	10910.2	12795.2	13059.3	7873.7
60°	583.1	594.1	641.8	755.5	1228.5	2739.5	4697.8	5501.0	6355.4	6560.8	3674.6
62.5°	451.1	454.7	476.7	495.1	583.1	1063.5	1764.0	2090.4	2171.0	1866.7	964.5
65°	377.7	381.4	388.7	388.7	414.4	498.8	616.1	678.5	660.1	652.8	546.4
67.5°	289.7	297.1	311.7	311.7	326.4	304.4	341.1	363.1	410.7	498.8	465.7
70°	227.4	231.0	242.0	249.4	249.4	220.0	245.7	267.7	300.7	370.4	366.7
72.5°	176.0	183.4	190.7	190.7	179.7	150.4	176.0	194.4	216.4	256.7	249.4
75°	135.7	135.7	139.4	113.7	88.0	77.0	106.4	128.4	161.4	168.7	139.4
77.5°	36.7	40.3	36.7	33.0	36.7	55.0	69.7	80.7	102.7	102.7	91.7
80°	0.0	3.7	11.0	22.0	36.7	51.3	62.3	69.7	80.7	88.0	84.3
82.5°	0.0	3.7	11.0	22.0	33.0	40.3	55.0	58.7	66.0	77.0	77.0
85°	0.0	3.7	7.3	14.7	22.0	25.7	25.7	22.0	22.0	18.3	14.7
87.5°	0.0	0.0	3.7	7.3	7.3	11.0	11.0	11.0	11.0	11.0	11.0
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°	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9	7264.9
2.5°	7301.6	7187.9	7015.5	6744.2	6483.8	6315.1	6153.7	5974.0	5875.0	5867.7	5812.7
5°	7389.6	7132.9	6722.2	6256.4	5757.7	5328.6	4895.8	4613.5	4360.4	4221.1	4195.4
7.5°	7437.3	7103.6	6439.8	5658.6	4807.8	4107.4	3623.3	3267.6	3128.2	3025.5	3021.9
10°	7536.3	7052.2	6018.0	4866.5	3814.0	3106.2	2772.5	2611.1	2534.1	2504.8	2460.8
12.5°	7609.7	6956.9	5585.3	4052.4	3014.5	2574.4	2427.8	2391.1	2394.7	2409.4	2391.1
15°	7712.3	6872.5	5002.2	3326.2	2530.4	2317.7	2317.7	2325.1	2376.4	2383.7	2380.1
17.5°	7705.0	6707.5	4400.8	2739.5	2237.1	2207.7	2218.7	2288.4	2321.4	2332.4	2306.7
20°	7793.0	6553.5	3781.0	2339.7	2072.0	2116.0	2189.4	2207.7	2248.1	2255.4	2226.1
22.5°	7767.3	6168.4	3205.2	2024.4	1947.3	2031.7	2105.0	2127.0	2116.0	2094.0	2090.4
25°	7719.7	5838.3	2677.1	1815.3	1855.7	1947.3	2017.0	1976.7	1954.7	1958.3	1962.0
27.5°	7635.3	5420.3	2240.7	1668.6	1731.0	1866.7	1863.0	1848.3	1870.3	1852.0	1870.3
30°	7620.7	5002.2	1881.3	1536.6	1639.3	1738.3	1745.6	1771.3	1797.0	1764.0	1797.0
32.5°	7642.7	4543.8	1624.6	1455.9	1584.3	1587.9	1668.6	1694.3	1676.0	1602.6	1609.9
35°	7811.4	4191.7	1437.6	1411.9	1496.3	1499.9	1576.9	1543.9	1463.3	1419.2	1444.9
37.5°	8167.1	3898.3	1349.6	1371.6	1378.9	1426.6	1430.2	1364.2	1371.6	1367.9	1382.6
40°	8621.8	3674.6	1287.2	1334.9	1327.6	1360.6	1228.5	1265.2	1298.2	1309.2	1316.6
42.5°	8933.5	3513.3	1246.9	1276.2	1261.6	1202.9	1129.5	1166.2	1191.9	1232.2	1239.5
45°	9072.9	3384.9	1199.2	1173.5	1173.5	1067.2	1037.8	1045.2	1103.9	1147.9	1140.5
47.5°	8845.5	3260.2	1114.9	1037.8	1063.5	975.5	942.5	942.5	1004.8	1059.9	1048.8
48°	8757.5	3208.9	1118.5	1008.5	1026.8	960.8	927.8	920.5	990.2	1041.5	1041.5
50°	8321.1	3018.2	1023.2	927.8	891.2	883.8	861.8	869.2	913.2	960.8	960.8
52.5°	7470.3	2607.5	865.5	795.8	729.8	773.8	784.8	770.1	792.1	836.1	832.5
55°	6234.4	2002.3	693.1	660.1	608.8	656.4	678.5	660.1	638.1	671.1	671.1
57.5°	3993.7	1078.2	553.8	561.1	509.8	557.4	575.8	531.8	491.4	517.1	513.4
60°	1800.6	645.4	454.7	443.7	410.7	465.7	495.1	443.7	388.7	407.1	425.4
62.5°	674.8	458.4	344.7	337.4	330.1	381.4	396.1	355.7	300.7	311.7	315.4
65°	495.1	403.4	275.0	249.4	264.0	300.7	293.4	253.0	216.4	216.4	223.7
67.5°	421.7	352.1	223.7	194.4	194.4	198.0	183.4	161.4	150.4	157.7	165.0
70°	330.1	278.7	176.0	150.4	135.7	121.0	106.4	102.7	91.7	102.7	99.0
72.5°	212.7	187.0	135.7	113.7	102.7	84.3	69.7	66.0	55.0	51.3	51.3
75°	113.7	113.7	106.4	91.7	80.7	66.0	55.0	44.0	29.3	22.0	22.0
77.5°	80.7	88.0	95.3	88.0	73.3	55.0	44.0	29.3	14.7	7.3	7.3
80°	77.0	88.0	95.3	84.3	73.3	55.0	40.3	22.0	11.0	3.7	3.7
82.5°	69.7	80.7	88.0	77.0	66.0	47.7	36.7	22.0	11.0	3.7	3.7
85°	14.7	18.3	22.0	22.0	25.7	33.0	25.7	18.3	7.3	3.7	3.7
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	7.3	7.3	3.7	3.7	3.7
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)