

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: P533459

Luminaire Tested: **GALN-SA8D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26855 lumens
Efficiency: N/A
Efficacy: 54.5 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

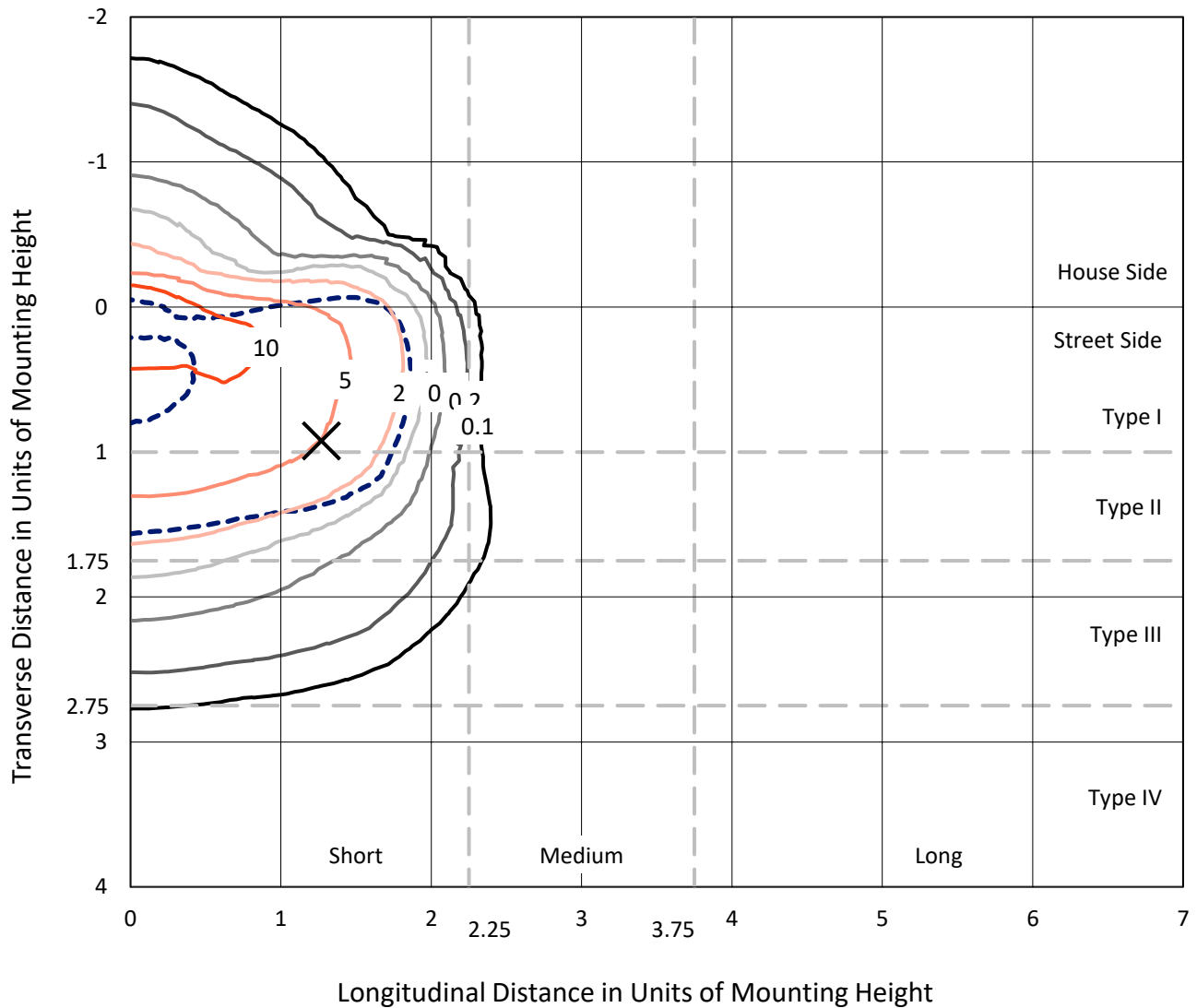
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

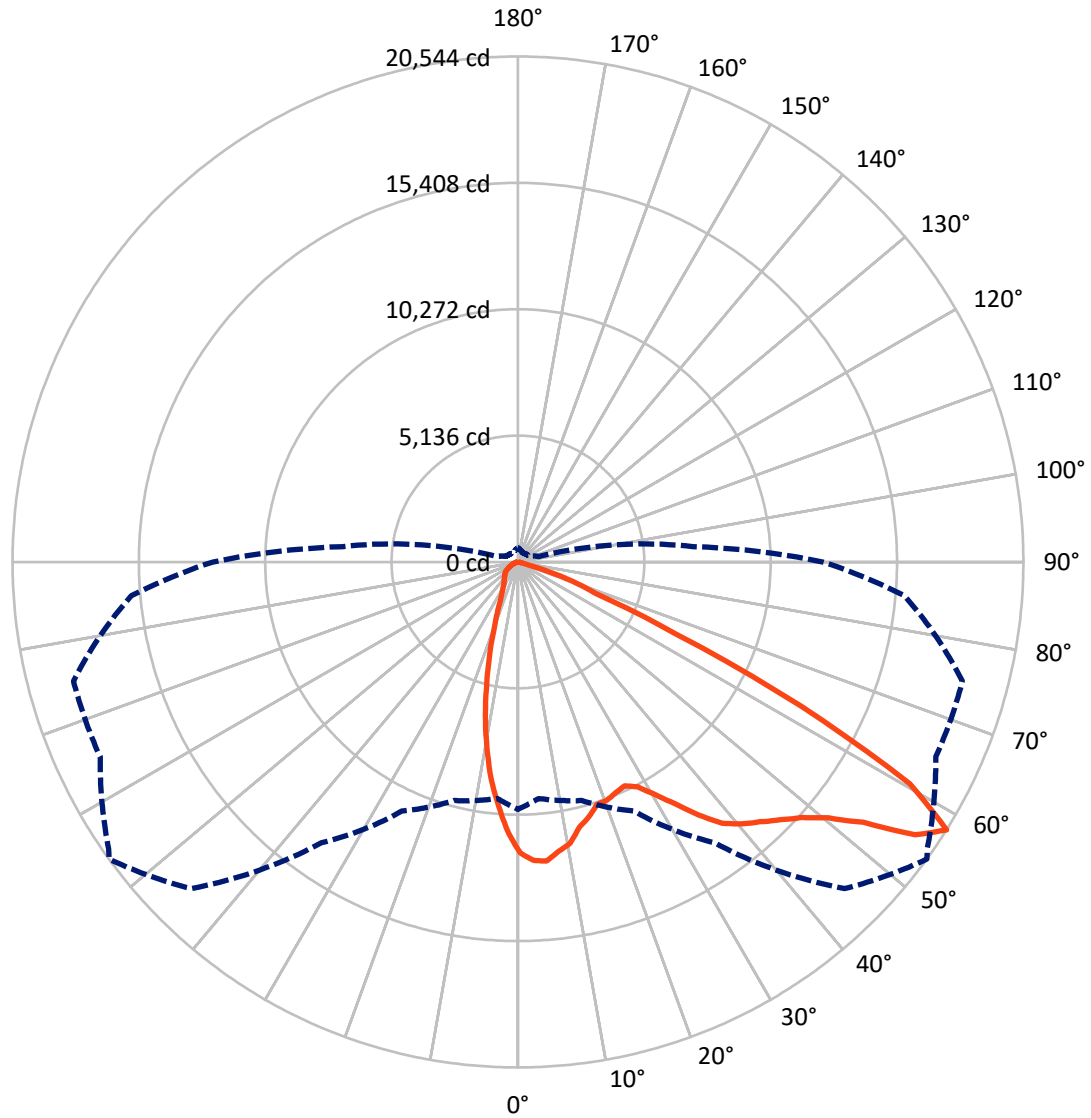
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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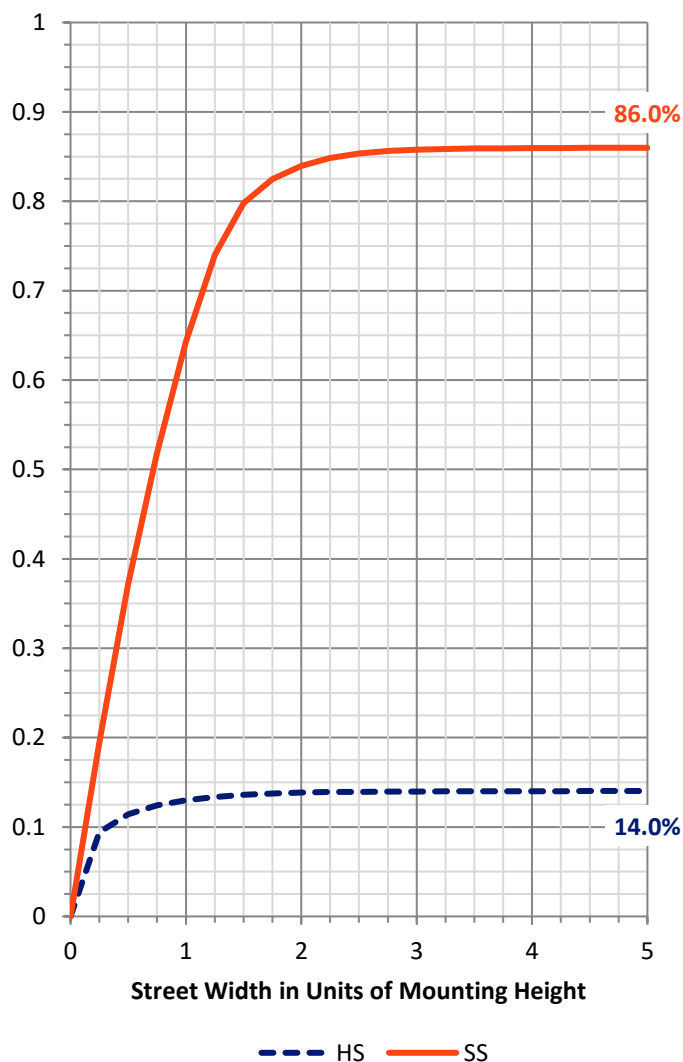
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3795.1	0.0	3795.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	23059.9	0.0	23059.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	26855.0	0.0	26855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	990.0	3.7
10°-20°	2113.5	7.9
20°-30°	2800.9	10.4
30°-40°	4070.4	15.2
40°-50°	6035.9	22.5
50°-60°	7547.6	28.1
60°-70°	2977.2	11.1
70°-80°	296.4	1.1
80°-90°	23.1	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°	26855.0	100.0
0°-180°	26855.0	100.0

Coefficient of Utilization



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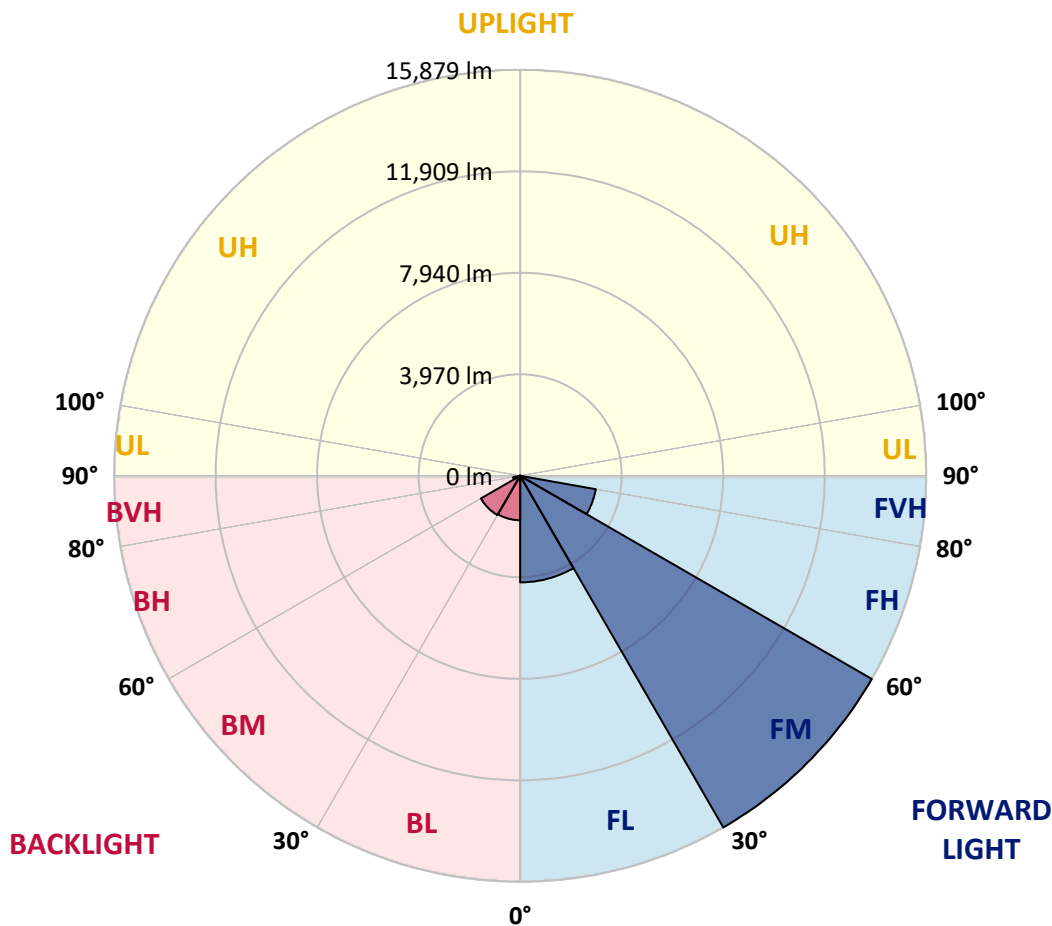
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4168.7	15.5			
FM (30°-60°)	15879.3	59.1			
FH (60°-80°)	3001.5	11.2			G2/5000
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	1735.7	6.5	B3/2500		
BM (30°-60°)	1774.7	6.6	B2/2500		
BH (60°-80°)	272.1	1.0	B1/500		G1/500
BVH (80°-90°)	12.6	0.0			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°	54°	55°	65°	75°	85°
0°	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0
2.5°	12519.1	12389.3	12399.3	12354.3	12294.4	12339.3	12144.6	12189.5	12184.5	11919.9	11745.1
5°	12204.5	12344.3	12199.5	12319.4	12204.5	12329.4	12209.5	12119.6	11974.8	11780.1	11455.5
7.5°	11670.2	11535.4	11575.3	11725.1	11750.1	12029.7	11879.9	11994.8	11934.9	11550.3	11105.9
10°	10596.6	10566.6	10766.3	10966.1	11210.8	11510.4	11625.2	11560.3	11515.4	11370.6	10776.3
12.5°	9772.6	9857.5	9852.5	10182.1	10596.6	10766.3	11066.0	11056.0	11305.7	11036.0	10466.7
15°	8988.6	9033.5	9243.3	9448.0	9907.4	10391.8	10761.3	10811.3	11110.9	10921.1	10227.0
17.5°	8509.2	8444.3	8609.1	8853.8	9323.2	9957.4	10366.8	10486.7	10896.2	10856.2	9952.4
20°	8034.8	8034.8	8169.6	8459.3	8888.7	9602.8	10331.9	10296.9	10896.2	10781.3	9657.7
22.5°	7875.0	7954.9	7989.9	8209.6	8718.9	9333.2	10182.1	10247.0	10981.1	10746.4	9527.9
25°	8094.7	7989.9	7999.8	8174.6	8654.0	9203.3	10072.2	10217.0	11135.9	10921.1	9423.0
27.5°	8129.7	8234.6	8264.5	8384.4	8704.0	9243.3	10346.9	10641.5	11520.4	11330.6	9453.0
30°	8434.3	8539.2	8534.2	8738.9	8958.6	9567.9	10961.1	11021.0	12314.4	11845.0	9637.8
32.5°	8803.8	8913.7	8948.6	9188.3	9363.1	10162.1	11710.1	11864.9	13078.4	12653.9	10122.2
35°	9263.2	9223.3	9383.1	9622.8	9997.3	11031.0	12624.0	12883.7	13902.4	13702.6	10621.5
37.5°	9837.5	9787.6	9942.4	10331.9	10841.2	12059.7	13467.9	13637.7	14501.6	14676.4	11545.4
40°	10242.0	10262.0	10731.4	11255.7	11795.0	13038.5	14002.2	14167.0	14921.1	15585.2	12244.5
42.5°	10916.1	11041.0	11605.3	12244.5	12808.7	13772.5	14436.7	14596.5	15115.8	16314.3	13188.3
45°	11894.9	11840.0	12464.2	13178.3	13802.5	14536.6	14951.0	14896.1	15230.7	17038.4	13782.5
47.5°	13153.3	13163.3	13577.8	14187.0	14836.2	15200.7	15525.3	15330.5	15470.4	17802.4	14576.5
50°	14012.2	14087.1	14421.7	15045.9	15370.5	15929.8	16344.3	16224.4	16179.5	18261.8	15075.9
52.5°	14231.9	14456.7	14636.4	15415.4	16174.5	17058.4	17587.7	17842.4	17043.4	18416.6	15710.1
55°	12574.0	12773.8	13408.0	14476.6	16479.1	18846.1	19575.2	19580.2	18171.9	19105.8	16154.5
57.5°	10052.2	9647.8	10037.3	11170.8	13932.3	18771.2	20543.9	20309.2	18736.2	18701.3	15770.0
60°	6951.2	6851.3	6876.3	7325.7	9642.8	14931.1	18306.8	18611.4	17253.1	16209.4	12484.2
62.5°	5508.0	5423.1	5313.3	5263.3	5987.4	9303.2	12913.6	13343.1	12064.7	10511.7	7400.6
65°	4314.5	4264.6	4279.6	4479.3	4474.3	5278.3	7061.0	6886.3	5513.0	4074.8	2327.0
67.5°	2911.3	2986.2	3046.1	3650.4	3960.0	3675.3	3410.7	3310.8	1792.7	754.0	514.3
70°	1637.9	1647.9	1712.8	2282.1	3006.2	2851.4	2352.0	2352.0	893.9	274.7	294.6
72.5°	893.9	863.9	804.0	983.8	1338.3	1358.3	1048.7	913.8	264.7	179.8	164.8
75°	434.4	429.5	369.5	304.6	289.6	239.7	184.8	169.8	119.8	114.9	99.9
77.5°	89.9	84.9	44.9	44.9	49.9	54.9	69.9	69.9	84.9	84.9	69.9
80°	0.0	0.0	5.0	20.0	35.0	49.9	59.9	59.9	69.9	69.9	54.9
82.5°	0.0	0.0	5.0	15.0	30.0	44.9	54.9	59.9	69.9	74.9	59.9
85°	0.0	0.0	0.0	10.0	25.0	35.0	30.0	30.0	25.0	20.0	10.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0	11830.0
2.5°	11655.2	11645.2	11415.5	11285.7	11051.0	10846.2	10681.4	10561.6	10561.6	10486.7	10416.8
5°	11325.6	11240.7	10751.4	10436.8	9992.3	9662.7	9438.0	9263.2	8988.6	9063.5	8768.9
7.5°	10916.1	10701.4	10052.2	9572.9	8958.6	8489.2	8009.8	7585.4	7175.9	6991.1	7091.0
10°	10476.7	10102.2	9228.3	8469.3	7705.2	6846.3	6287.0	5607.9	5188.4	5163.4	5053.6
12.5°	10012.3	9587.8	8524.2	7475.5	6471.8	5438.1	4584.2	3950.0	3665.3	3350.7	3410.7
15°	9662.7	9033.5	7740.2	6476.8	5143.5	4099.8	3240.9	2751.5	2481.9	2406.9	2382.0
17.5°	9283.2	8609.1	6941.2	5413.1	4034.9	2951.3	2332.0	2097.3	1992.5	1992.5	1977.5
20°	8888.7	8129.7	6147.2	4424.4	3026.2	2202.2	1867.6	1792.7	1787.7	1782.7	1782.7
22.5°	8629.1	7580.4	5428.1	3515.5	2282.1	1762.8	1622.9	1593.0	1613.0	1672.9	1672.9
25°	8354.4	7051.1	4634.1	2711.6	1767.8	1513.1	1433.2	1453.2	1503.1	1558.0	1538.0
27.5°	8074.8	6706.5	3885.1	2127.3	1448.2	1323.3	1293.4	1338.3	1393.2	1443.2	1428.2
30°	8009.8	6337.0	3176.0	1613.0	1243.4	1153.5	1173.5	1213.5	1268.4	1288.4	1308.3
32.5°	8109.7	6047.3	2601.7	1323.3	1083.6	1058.7	1058.7	1078.6	1113.6	1158.5	1143.5
35°	8394.3	5882.5	2057.4	1148.5	993.7	968.8	963.8	983.8	1003.7	1018.7	1003.7
37.5°	8828.8	5752.7	1682.9	1018.7	933.8	893.9	883.9	878.9	898.9	903.9	913.8
40°	9383.1	5822.6	1428.2	938.8	873.9	828.9	799.0	799.0	799.0	814.0	819.0
42.5°	9982.3	5917.5	1233.4	893.9	819.0	764.0	734.1	724.1	734.1	754.0	749.0
45°	10611.5	6102.3	1108.6	824.0	769.0	699.1	659.2	649.2	674.1	714.1	709.1
47.5°	11200.8	6366.9	1013.7	779.0	719.1	654.2	604.2	594.2	639.2	694.1	699.1
50°	11790.0	6826.3	978.8	744.1	684.1	609.2	564.3	554.3	604.2	674.1	689.1
52.5°	12469.2	7320.7	953.8	699.1	644.2	574.3	524.3	514.3	569.3	659.2	664.2
55°	12913.6	7740.2	933.8	619.2	569.3	519.3	479.4	474.4	534.3	614.2	634.2
57.5°	12394.3	7155.9	863.9	539.3	484.4	459.4	424.5	424.5	474.4	549.3	564.3
60°	9398.1	4709.0	614.2	434.4	409.5	394.5	379.5	379.5	419.5	474.4	479.4
62.5°	5503.0	2536.8	394.5	349.6	349.6	334.6	309.6	309.6	349.6	379.5	384.5
65°	1632.9	814.0	319.6	299.6	294.6	269.7	244.7	239.7	269.7	284.6	279.6
67.5°	469.4	374.5	264.7	249.7	244.7	204.7	189.8	184.8	189.8	179.8	174.8
70°	279.6	254.7	204.7	209.7	184.8	149.8	134.8	129.8	119.8	104.9	94.9
72.5°	154.8	154.8	149.8	159.8	129.8	99.9	84.9	69.9	54.9	44.9	39.9
75°	94.9	99.9	104.9	109.9	84.9	64.9	54.9	35.0	20.0	10.0	10.0
77.5°	64.9	69.9	74.9	79.9	69.9	59.9	44.9	25.0	5.0	0.0	0.0
80°	49.9	54.9	64.9	69.9	74.9	79.9	59.9	25.0	5.0	0.0	0.0
82.5°	54.9	59.9	74.9	69.9	69.9	69.9	54.9	25.0	5.0	0.0	0.0
85°	10.0	15.0	25.0	25.0	35.0	44.9	35.0	10.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)