

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: P533301

Luminaire Tested: **GALN-SA8D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30494 lumens
Efficiency: N/A
Efficacy: 61.9 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

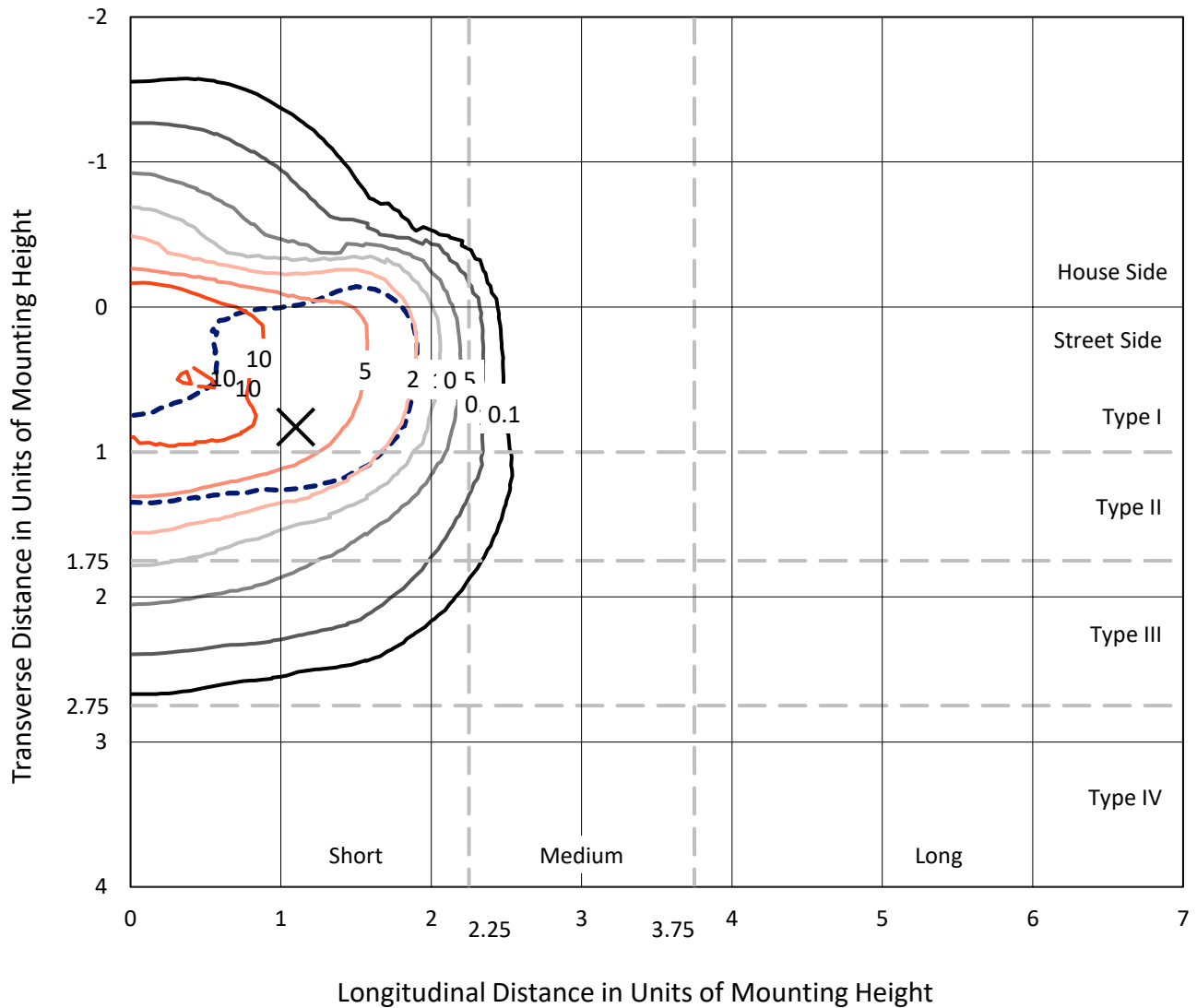
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

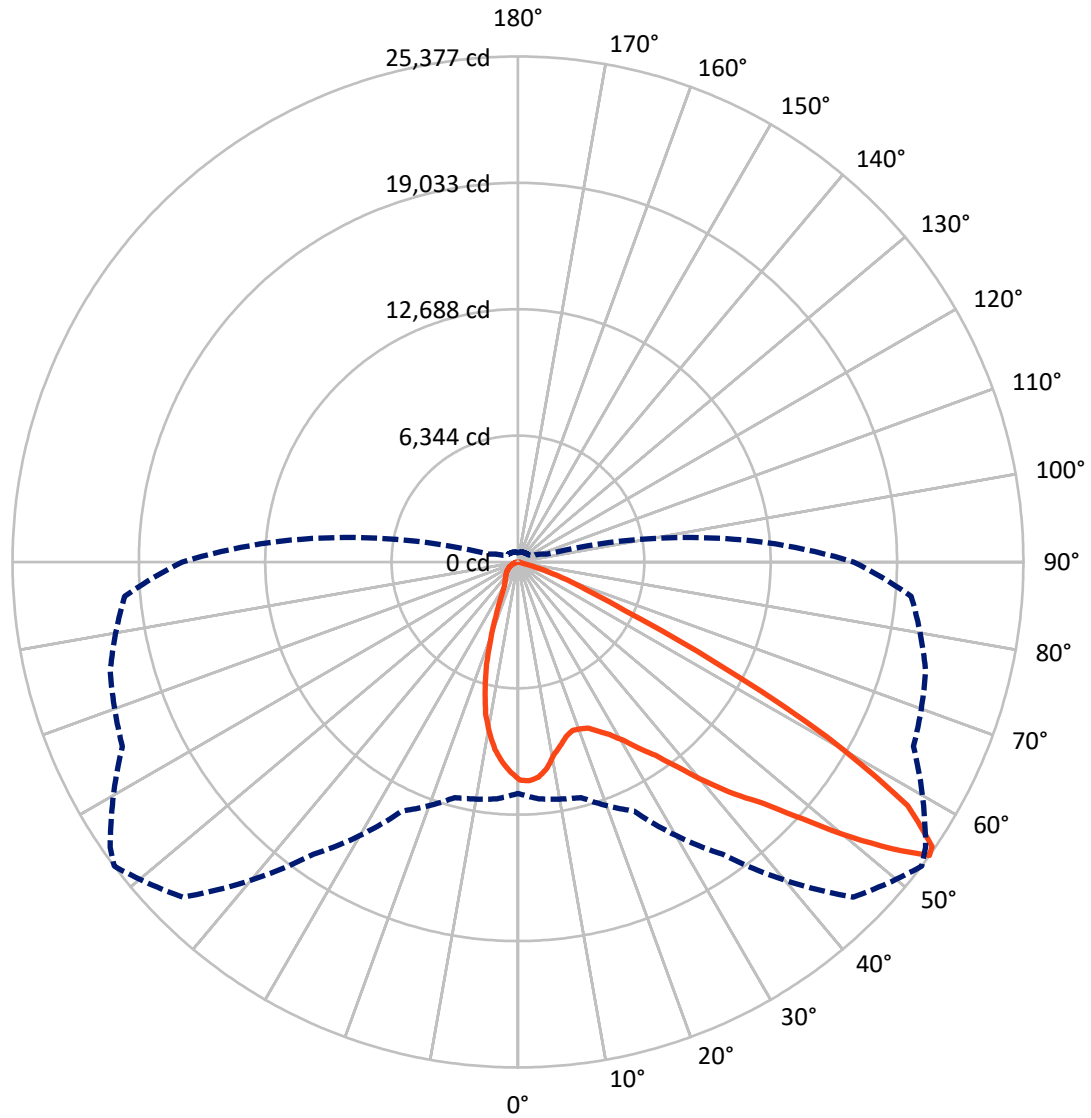
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5045.3	0.0	5045.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	25448.7	0.0	25448.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	30494.0	0.0	30494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.7	3.1
10°-20°	2154.5	7.1
20°-30°	3062.0	10.0
30°-40°	4725.5	15.5
40°-50°	7409.2	24.3
50°-60°	8606.8	28.2
60°-70°	3252.2	10.7
70°-80°	309.3	1.0
80°-90°	34.8	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°	30494.0	100.0
0°-180°	30494.0	100.0

Coefficient of Utilization

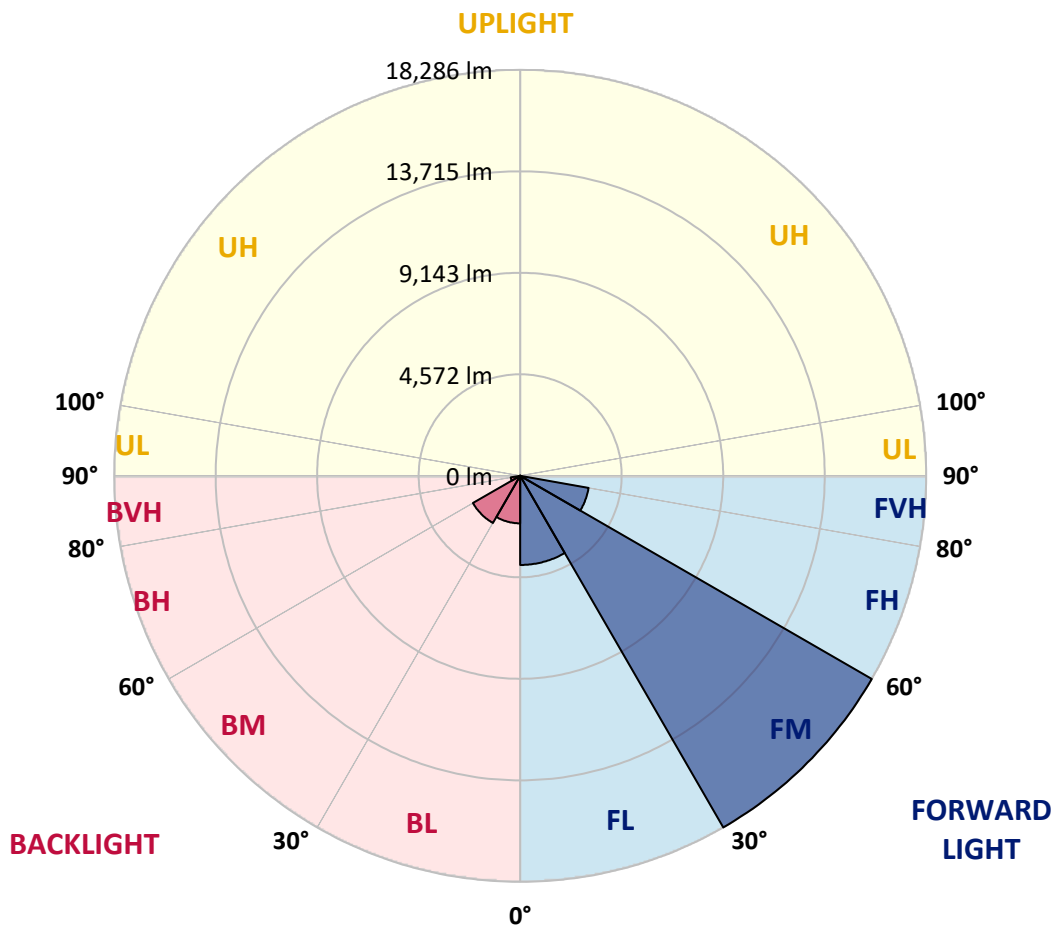


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4015.3	13.2			
FM (30°-60°)	18286.3	60.0			
FH (60°-80°)	3129.1	10.3			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	2141.0	7.0	B3/2500		
BM (30°-60°)	2455.2	8.1	B2/2500		
BH (60°-80°)	432.3	1.4	B1/500		G1/500
BVH (80°-90°)	16.8	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°	53°	55°	65°	75°	85°
0°	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9
2.5°	10896.1	10799.5	10896.1	10907.5	10975.7	11038.1	10998.4	11089.3	11038.1	10981.3	10964.3
5°	10015.6	10146.2	10151.9	10356.4	10311.0	10685.9	10850.7	10805.2	11083.6	11066.6	11026.8
7.5°	9225.9	9174.8	9243.0	9481.6	9782.6	10214.4	10453.0	10447.3	10845.0	11129.0	11100.6
10°	8493.1	8487.4	8629.4	8816.9	9072.5	9527.0	9856.5	10021.2	10640.5	11072.2	11134.7
12.5°	7998.8	7976.1	8129.5	8282.9	8686.2	9038.4	9458.8	9538.4	10248.5	10873.4	10975.7
15°	7675.0	7726.1	7737.5	8032.9	8288.6	8754.4	9083.9	9248.6	10066.7	10714.3	11106.3
17.5°	7618.2	7686.4	7692.0	7936.3	8209.0	8601.0	8890.7	9112.3	9913.3	10793.9	11112.0
20°	7731.8	7692.0	7726.1	7879.5	8146.5	8521.5	8941.9	9015.7	9862.2	10833.6	11174.5
22.5°	8055.6	8044.3	7959.1	8084.0	8271.5	8663.5	9061.2	9174.8	10009.9	11038.1	11225.6
25°	8413.5	8476.0	8396.5	8379.4	8510.1	8896.4	9424.7	9572.5	10504.1	11407.4	11384.7
27.5°	9083.9	9021.4	9021.4	8941.9	8907.8	9095.2	9816.7	10061.0	11055.2	11884.6	11566.5
30°	9725.8	9794.0	9742.9	9771.3	9544.0	9527.0	10373.5	10674.6	12032.3	12611.8	11952.8
32.5°	10742.7	10651.8	10737.1	10663.2	10362.1	10055.3	11129.0	11441.5	13214.0	13446.9	12532.2
35°	11589.2	11549.4	11913.0	11901.7	11413.1	11112.0	11930.1	12395.9	14037.7	14446.7	13214.0
37.5°	12793.6	12719.7	13134.4	13333.3	12895.8	12447.0	13077.6	13617.3	14804.6	15247.8	13912.7
40°	14032.0	14219.5	14776.2	15105.7	14639.9	14043.4	14480.8	14645.6	15315.9	15770.4	14389.9
42.5°	15600.0	15872.7	16440.8	16724.8	16685.0	16037.4	15906.7	15901.1	15685.2	15622.7	14742.1
45°	17105.4	17003.2	17878.0	18497.3	18997.2	18809.7	17281.5	17111.1	16270.3	15844.3	14833.0
47.5°	17764.4	17730.3	18326.8	19429.0	21133.2	21366.2	19281.2	18622.3	17258.8	16775.9	15327.3
50°	16912.3	17088.4	17679.2	18900.6	21513.9	23292.0	21735.4	20849.2	18412.1	17912.1	16497.6
52.5°	14128.6	14247.9	14810.3	16361.2	20218.6	24428.2	24087.4	23576.1	20531.1	19701.6	18537.0
54°	11617.6	11935.7	12242.5	13799.1	17912.1	23797.6	25376.9	24985.0	21911.5	21190.1	19820.9
55°	10117.8	10305.3	10526.9	12077.8	16315.8	22729.6	25229.2	25263.3	22837.5	21655.9	20684.5
57.5°	7391.0	7521.6	7294.4	7981.8	11202.9	18457.5	23076.1	23996.5	24087.4	22354.7	21212.8
60°	5646.9	5703.7	5448.1	5556.0	6964.9	12668.6	17849.6	18957.4	21729.8	19536.9	17968.9
62.5°	4380.0	4391.4	4385.7	4573.2	4800.4	7453.4	11163.1	12145.9	14980.7	13873.0	12202.7
65°	3226.8	3175.7	3266.6	3834.7	4096.0	4686.8	5879.8	6595.6	8140.8	6874.0	4914.0
67.5°	2090.6	2107.6	2198.5	2851.9	3510.8	3596.1	3618.8	3562.0	3567.7	1965.6	1232.8
70°	1255.5	1283.9	1255.5	1613.4	2511.0	2579.2	2357.6	2300.8	1795.2	465.8	460.2
72.5°	744.2	704.4	630.6	693.1	1045.3	1249.8	1124.8	1119.2	704.4	272.7	272.7
75°	312.5	284.0	232.9	210.2	278.4	267.0	267.0	238.6	187.5	181.8	170.4
77.5°	62.5	62.5	45.4	51.1	68.2	79.5	96.6	96.6	113.6	113.6	107.9
80°	0.0	5.7	17.0	34.1	51.1	73.9	85.2	85.2	96.6	96.6	79.5
82.5°	0.0	5.7	17.0	34.1	45.4	68.2	85.2	85.2	96.6	102.3	85.2
85°	0.0	5.7	17.0	28.4	45.4	56.8	56.8	51.1	39.8	34.1	22.7
87.5°	0.0	0.0	5.7	11.4	5.7	11.4	11.4	11.4	11.4	11.4	11.4
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°	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9	10952.9
2.5°	11004.1	10998.4	10862.0	10640.5	10589.3	10401.9	10379.2	10265.5	10328.0	10117.8	10095.1
5°	10913.2	10845.0	10680.2	10538.2	10123.5	9828.1	9595.2	9311.1	9146.4	9174.8	9066.8
7.5°	11043.8	10867.7	10578.0	10083.7	9578.1	9061.2	8782.8	8203.3	7993.1	7680.7	7635.2
10°	10907.5	10776.8	10328.0	9510.0	8811.2	8067.0	7413.7	6771.7	6283.2	6073.0	6027.5
12.5°	10896.1	10668.9	9919.0	9010.0	7998.8	6930.8	5982.1	5181.1	4698.2	4425.5	4363.0
15°	10720.0	10447.3	9458.8	8237.4	6839.9	5510.6	4476.6	3704.0	3334.7	3175.7	3221.1
17.5°	10737.1	10328.0	8998.7	7419.4	5698.0	4044.9	3056.4	2658.7	2562.1	2601.9	2601.9
20°	10720.0	10061.0	8441.9	6476.3	4363.0	2806.4	2244.0	2102.0	2164.5	2289.4	2261.0
22.5°	10629.1	9936.0	7930.6	5482.1	3209.8	2079.2	1800.9	1806.6	1903.1	2056.5	2090.6
25°	10697.3	9657.7	7283.0	4476.6	2340.6	1658.8	1562.3	1602.0	1704.3	1817.9	1840.6
27.5°	10646.2	9458.8	6607.0	3476.8	1710.0	1425.9	1420.2	1465.7	1511.1	1596.4	1596.4
30°	10703.0	9277.0	5942.3	2584.8	1408.9	1306.6	1283.9	1318.0	1363.4	1380.5	1374.8
32.5°	10913.2	9140.7	5175.4	1931.5	1244.1	1193.0	1193.0	1193.0	1187.3	1210.0	1215.7
35°	11373.3	9163.4	4499.3	1494.1	1136.2	1096.4	1079.4	1056.7	1045.3	1056.7	1062.3
37.5°	11873.2	9152.1	3800.6	1272.5	1056.7	1022.6	982.8	948.7	943.0	954.4	937.4
40°	12094.8	9260.0	3152.9	1141.9	982.8	943.0	880.6	852.1	857.8	869.2	857.8
42.5°	12395.9	9294.1	2732.6	1039.6	914.6	852.1	812.4	778.3	772.6	789.7	784.0
45°	12390.2	9100.9	2289.4	982.8	852.1	784.0	732.8	704.4	704.4	715.8	721.5
47.5°	12753.8	9072.5	1965.6	931.7	806.7	738.5	676.0	653.3	647.6	647.6	636.3
50°	13600.3	9470.2	1715.7	874.9	749.9	687.4	636.3	607.9	585.1	573.8	568.1
52.5°	15253.4	10708.6	1522.5	806.7	687.4	636.3	590.8	568.1	539.7	511.3	505.6
54°	16855.5	11986.9	1511.1	749.9	636.3	602.2	562.4	551.1	517.0	477.2	465.8
55°	17577.0	12731.1	1550.9	704.4	602.2	579.5	545.4	534.0	499.9	454.5	448.8
57.5°	18173.5	13020.8	1528.2	585.1	545.4	539.7	511.3	494.2	454.5	392.0	380.6
60°	14628.5	9845.1	1096.4	517.0	499.9	488.6	465.8	454.5	403.3	335.2	329.5
62.5°	9243.0	5663.9	698.8	454.5	437.4	420.4	392.0	380.6	335.2	267.0	250.0
65°	3936.9	2346.2	471.5	403.3	374.9	346.5	323.8	306.8	267.0	198.8	193.2
67.5°	1022.6	835.1	392.0	352.2	312.5	272.7	255.6	227.2	181.8	136.3	130.7
70°	460.2	420.4	329.5	295.4	250.0	210.2	187.5	159.1	119.3	90.9	85.2
72.5°	272.7	267.0	250.0	221.6	187.5	159.1	136.3	107.9	79.5	51.1	51.1
75°	170.4	164.7	170.4	153.4	130.7	119.3	102.3	73.9	45.4	22.7	22.7
77.5°	102.3	102.3	102.3	96.6	90.9	90.9	73.9	45.4	22.7	5.7	5.7
80°	79.5	79.5	85.2	79.5	79.5	79.5	62.5	34.1	11.4	0.0	0.0
82.5°	79.5	85.2	96.6	90.9	79.5	68.2	56.8	34.1	11.4	0.0	0.0
85°	22.7	17.0	28.4	39.8	56.8	51.1	39.8	28.4	11.4	0.0	0.0
87.5°	11.4	11.4	11.4	11.4	5.7	5.7	5.7	5.7	5.7	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)