

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: P533237

Luminaire Tested: **GALN-SA8C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533237
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-SA8C-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA 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: 25381 lumens
Efficiency: N/A
Efficacy: 59.2 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

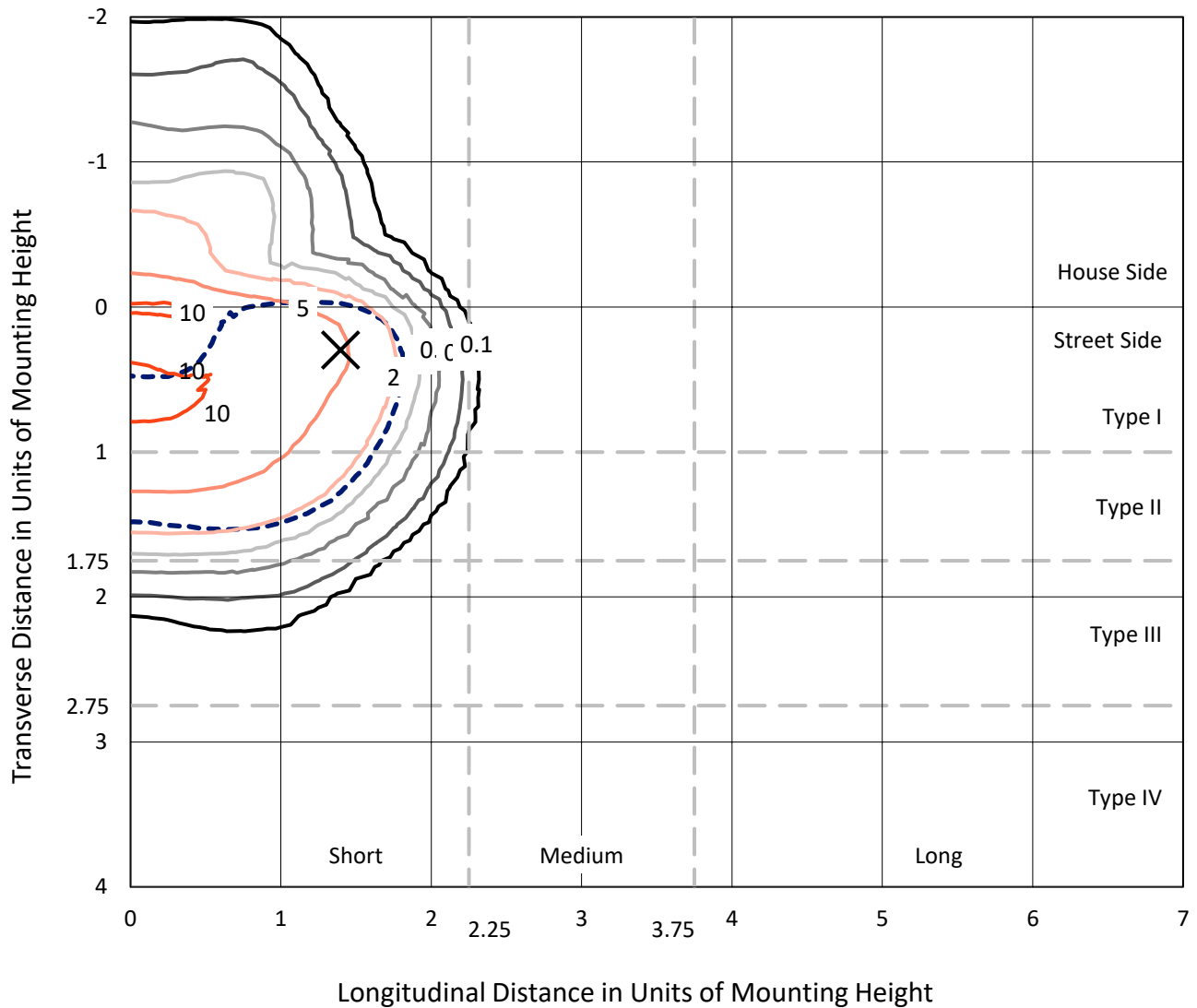
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

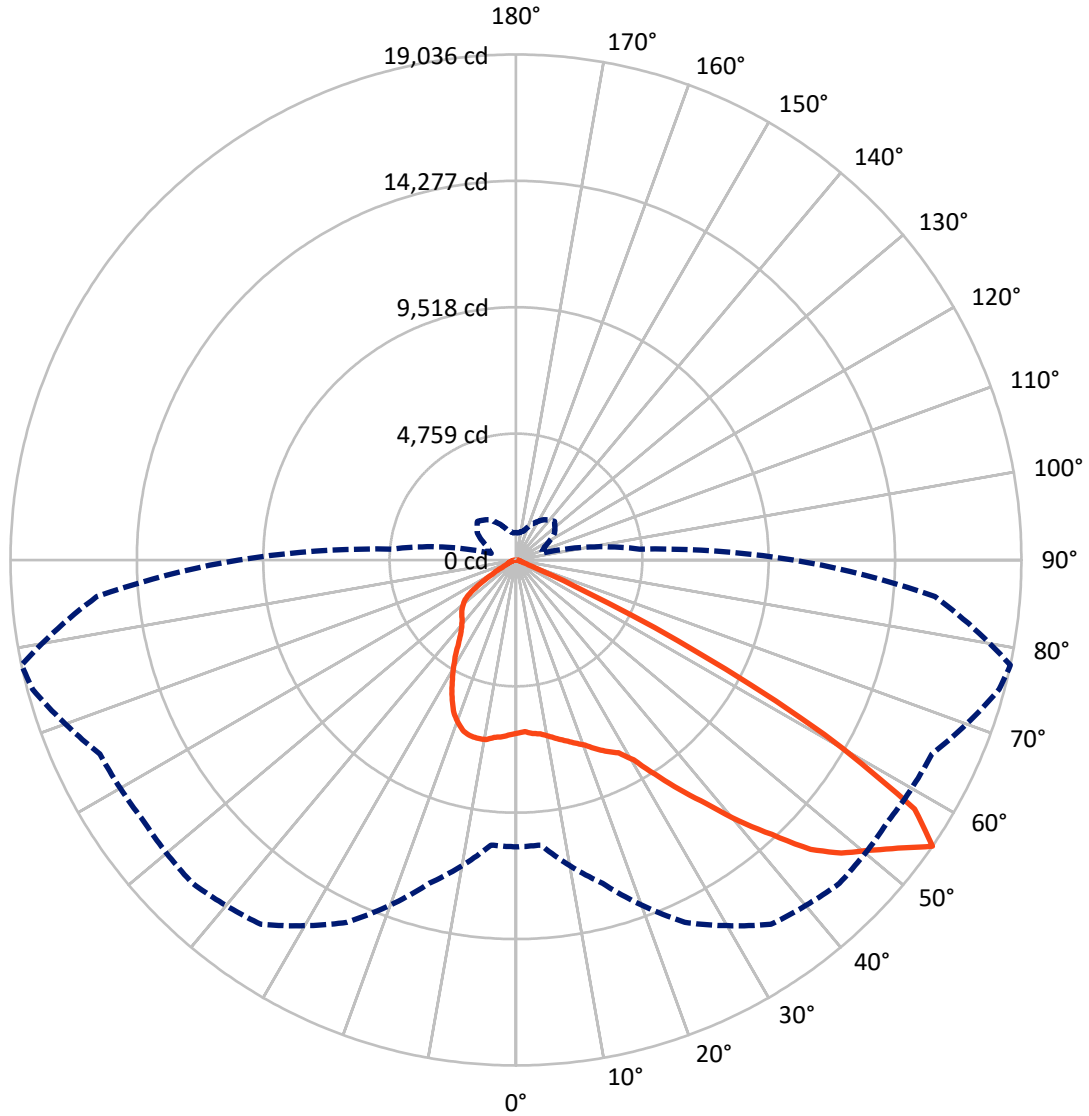
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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
House Side	Lumens	4714.3	0.0	4714.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20666.8	0.0	20666.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	25381.0	0.0	25381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.9	2.3
10°-20°	1539.9	6.1
20°-30°	2699.2	10.6
30°-40°	4450.6	17.5
40°-50°	6476.2	25.5
50°-60°	7338.2	28.9
60°-70°	2098.1	8.3
70°-80°	162.9	0.6
80°-90°	33.9	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°	25381.0	100.0
0°-180°	25381.0	100.0

Coefficient of Utilization



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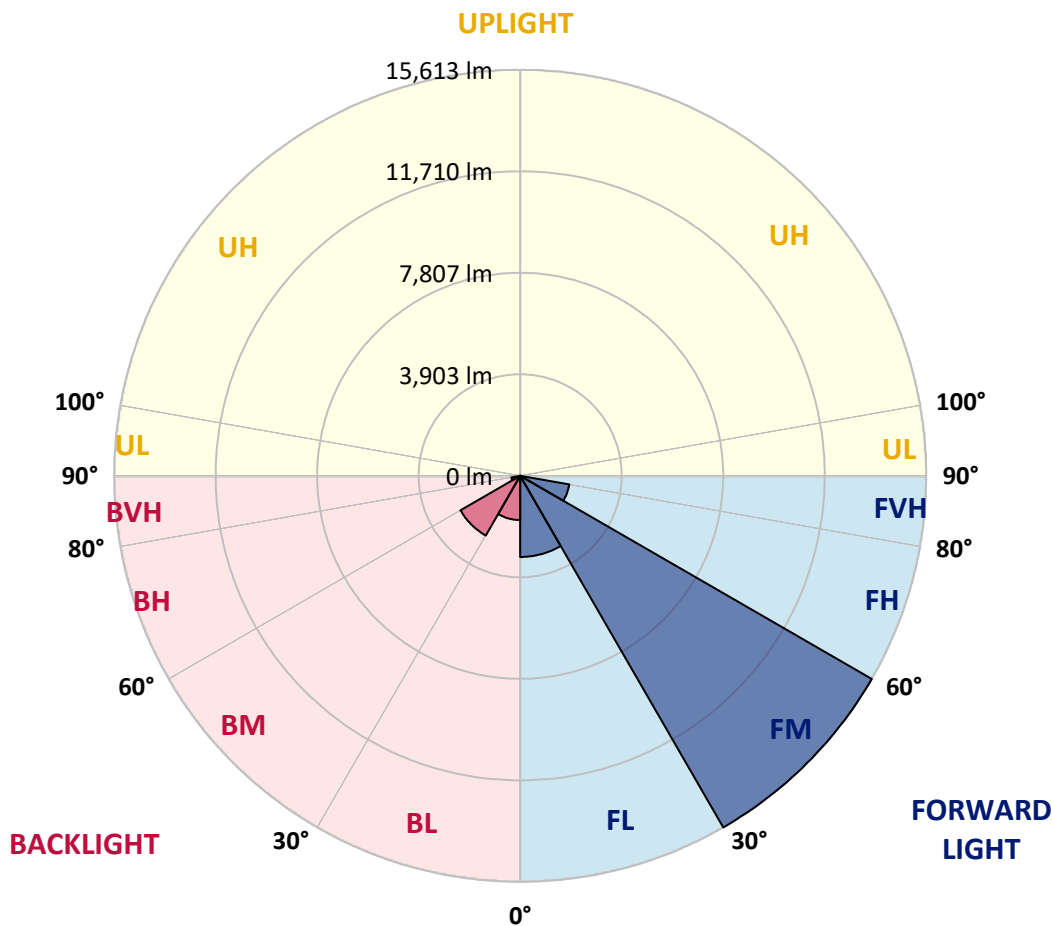
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3120.1	12.3			
FM	(30°-60°)	15613.3	61.5			
FH	(60°-80°)	1916.9	7.6			G2/5000
FVH	(80°-90°)	16.5	0.1			G1/100
BL	(0°-30°)	1700.9	6.7	B3/2500		
BM	(30°-60°)	2651.8	10.4	B3/5000		
BH	(60°-80°)	344.1	1.4	B1/500		G1/500
BVH	(80°-90°)	17.4	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°	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5
2.5°	6135.2	6194.2	6203.3	6275.9	6271.3	6393.9	6430.2	6434.7	6516.4	6475.6	6579.9
5°	5962.8	5931.0	5917.4	6044.5	6080.8	6189.7	6280.4	6334.9	6502.8	6561.8	6670.7
7.5°	5808.5	5808.5	5817.6	5931.0	5917.4	6058.1	6153.4	6321.3	6566.3	6616.2	6747.8
10°	5658.7	5604.3	5672.3	5790.3	5890.2	5953.7	6153.4	6312.2	6598.1	6743.3	6924.8
12.5°	5581.6	5608.8	5617.9	5704.1	5813.0	6003.6	6112.5	6375.7	6825.0	6911.2	7106.3
15°	6067.1	6012.7	5881.1	5803.9	5894.7	5985.5	6257.7	6525.5	6943.0	7065.5	7283.3
17.5°	6629.8	6584.5	6475.6	6266.8	6062.6	6230.5	6443.8	6688.8	7070.0	7251.5	7573.7
20°	7365.0	7292.4	7183.5	6775.1	6598.1	6416.6	6643.5	6933.9	7278.8	7442.1	7773.4
22.5°	8240.8	8240.8	7995.7	7501.1	7133.5	6961.1	7056.4	7224.3	7510.2	7732.5	8059.3
25°	9152.9	9125.7	8903.3	8390.5	7768.8	7564.6	7673.6	7791.5	7868.7	7991.2	8209.0
27.5°	10196.6	10037.8	9756.4	9189.2	8640.1	8245.3	8363.3	8258.9	8163.6	8227.2	8540.3
30°	10904.5	11004.4	10645.9	10101.3	9584.0	9143.8	9166.5	9075.8	8640.1	8730.9	8916.9
32.5°	11639.7	11703.2	11503.5	11204.0	10686.7	10173.9	9987.9	9910.7	9584.0	9624.8	9443.3
35°	12252.3	12374.8	12197.8	12066.2	11916.5	11503.5	10990.7	11240.3	10713.9	10614.1	10142.2
37.5°	12815.0	12778.7	12987.4	12851.3	12819.5	12529.1	11966.4	12016.3	11662.3	11639.7	11095.1
40°	13318.7	13327.8	13613.6	13677.2	13550.1	13032.8	12216.0	12610.8	12896.7	12923.9	12225.0
42.5°	13736.2	13858.7	14103.7	14616.5	14425.9	13563.7	12474.6	12905.7	13967.6	14135.5	13296.0
45°	14099.2	14348.8	14652.8	15111.1	15002.2	14317.0	13119.0	13513.8	15111.1	15551.3	14303.4
47.5°	14121.9	14448.6	14779.9	15460.6	15596.7	14720.9	13786.1	14475.8	16018.7	16495.2	15038.5
50°	14031.1	14203.6	14866.1	15605.8	15914.3	15378.9	14720.9	15283.6	16899.1	17198.6	15410.6
52.5°	12955.6	13087.2	14416.8	15741.9	16486.1	16123.1	15959.7	16409.0	17797.6	18019.9	15760.1
55°	10800.2	10777.5	12606.2	15056.7	16749.3	17225.8	17126.0	17284.8	18836.7	19036.4	15846.3
57.5°	7387.7	7800.6	9379.8	12538.2	15138.4	16967.1	17071.5	16808.3	17625.1	17702.3	13813.3
60°	3984.3	4156.7	5427.3	8367.8	11526.2	13826.9	14099.2	13622.7	13559.2	13341.4	9860.8
62.5°	1583.7	1669.9	2391.5	4143.1	6280.4	8404.2	8989.5	8794.4	8376.9	7805.2	5105.1
65°	753.3	807.7	1188.9	1937.7	2786.3	3503.2	4088.6	4270.1	3149.3	2836.2	1683.6
67.5°	512.8	553.6	866.7	1107.2	993.8	1039.2	1352.3	1257.0	739.7	630.8	467.4
70°	390.3	417.5	694.3	753.3	444.7	313.1	349.4	326.7	304.0	308.6	304.0
72.5°	276.8	299.5	508.2	444.7	195.1	145.2	186.1	222.4	222.4	222.4	217.8
75°	167.9	190.6	295.0	172.4	77.1	77.1	118.0	149.8	158.8	163.4	154.3
77.5°	86.2	108.9	99.8	49.9	49.9	59.0	86.2	104.4	113.4	113.4	108.9
80°	18.2	18.2	18.2	27.2	49.9	63.5	86.2	95.3	108.9	108.9	99.8
82.5°	0.0	4.5	13.6	27.2	45.4	59.0	81.7	95.3	108.9	113.4	104.4
85°	0.0	4.5	9.1	18.2	31.8	36.3	31.8	27.2	27.2	27.2	27.2
87.5°	0.0	0.0	4.5	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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°	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5	6525.5
2.5°	6589.0	6602.6	6579.9	6575.4	6557.2	6611.7	6480.1	6448.3	6530.0	6452.9	6471.0
5°	6675.2	6707.0	6666.1	6598.1	6498.2	6344.0	6212.4	6039.9	5958.2	5899.2	5890.2
7.5°	6738.8	6761.4	6720.6	6502.8	6203.3	5813.0	5522.6	5309.3	5141.4	5091.5	5009.8
10°	6997.4	7001.9	6797.7	6316.7	5731.3	5218.6	4773.8	4447.1	4279.2	4174.8	4129.5
12.5°	7169.8	7160.8	6747.8	5949.2	5168.6	4488.0	3979.7	3584.9	3430.6	3380.7	3349.0
15°	7387.7	7337.8	6629.8	5572.5	4442.6	3707.4	3249.1	2976.8	2963.2	2931.5	2963.2
17.5°	7560.1	7419.4	6457.4	4887.3	3748.3	3054.0	2754.5	2772.6	2808.9	2840.7	2845.3
20°	7841.5	7551.0	6062.6	4288.3	3103.9	2618.4	2613.8	2695.5	2786.3	2822.6	2858.9
22.5°	8054.7	7605.5	5640.6	3648.5	2577.5	2441.4	2518.5	2641.0	2709.1	2745.4	2799.9
25°	8131.9	7455.7	5077.9	3008.6	2323.4	2359.7	2477.7	2559.4	2645.6	2686.4	2663.7
27.5°	8209.0	7378.6	4406.3	2477.7	2187.3	2305.2	2405.1	2486.8	2514.0	2568.4	2604.7
30°	8395.1	7110.9	3802.7	2141.9	2119.2	2268.9	2341.5	2368.8	2441.4	2473.1	2473.1
32.5°	8544.8	7006.5	3162.9	1983.1	2110.1	2287.1	2296.2	2296.2	2305.2	2282.6	2273.5
35°	8853.4	6648.0	2591.1	1887.8	2105.6	2291.6	2314.3	2237.2	2028.4	1946.8	1924.1
37.5°	9234.6	6416.6	2169.1	1865.1	2137.3	2346.1	2382.4	2092.0	1819.7	1688.1	1665.4
40°	9697.4	6253.2	1892.3	1856.0	2209.9	2473.1	2364.2	1978.5	1624.6	1434.0	1424.9
42.5°	10237.5	6103.4	1706.2	1851.5	2300.7	2604.7	2346.1	1883.2	1424.9	1297.8	1316.0
45°	10668.6	6021.8	1579.2	1819.7	2332.5	2681.9	2359.7	1715.3	1343.2	1261.5	1270.6
47.5°	11004.4	5849.3	1474.8	1765.2	2327.9	2709.1	2237.2	1647.3	1302.4	1325.1	1347.8
50°	11013.4	5617.9	1343.2	1647.3	2259.9	2659.2	2096.5	1583.7	1293.3	1388.6	1434.0
52.5°	10890.9	5291.2	1202.5	1479.3	2101.0	2486.8	1969.4	1556.5	1252.5	1243.4	1297.8
55°	10455.3	4678.6	966.6	1198.0	1774.3	2051.1	1856.0	1506.6	1129.9	1025.6	1034.6
57.5°	8449.5	3353.5	712.4	857.7	1257.0	1502.0	1674.5	1483.9	1016.5	871.3	875.8
60°	5232.2	1901.4	521.9	585.4	776.0	912.1	1356.8	1379.5	907.6	735.1	726.1
62.5°	2686.4	939.3	403.9	412.9	476.5	535.5	930.3	1157.2	821.4	698.8	698.8
65°	898.5	462.9	354.0	317.7	317.7	331.3	562.7	803.2	694.3	585.4	585.4
67.5°	385.7	344.9	308.6	276.8	254.1	240.5	317.7	467.4	517.3	444.7	426.6
70°	299.5	290.4	267.7	231.4	199.7	181.5	186.1	240.5	295.0	285.9	276.8
72.5°	222.4	222.4	213.3	181.5	154.3	131.6	122.5	127.1	140.7	145.2	149.8
75°	154.3	158.8	158.8	140.7	113.4	95.3	81.7	68.1	54.5	45.4	40.8
77.5°	104.4	108.9	118.0	104.4	86.2	63.5	49.9	36.3	22.7	9.1	9.1
80°	90.8	104.4	113.4	104.4	90.8	68.1	49.9	27.2	13.6	0.0	0.0
82.5°	95.3	104.4	118.0	99.8	86.2	63.5	49.9	31.8	13.6	4.5	0.0
85°	22.7	22.7	27.2	31.8	40.8	45.4	36.3	22.7	13.6	4.5	0.0
87.5°	9.1	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	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)