

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: P533127

Luminaire Tested: **GALN-SA8C-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31196 lumens
Efficiency: N/A
Efficacy: 72.7 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

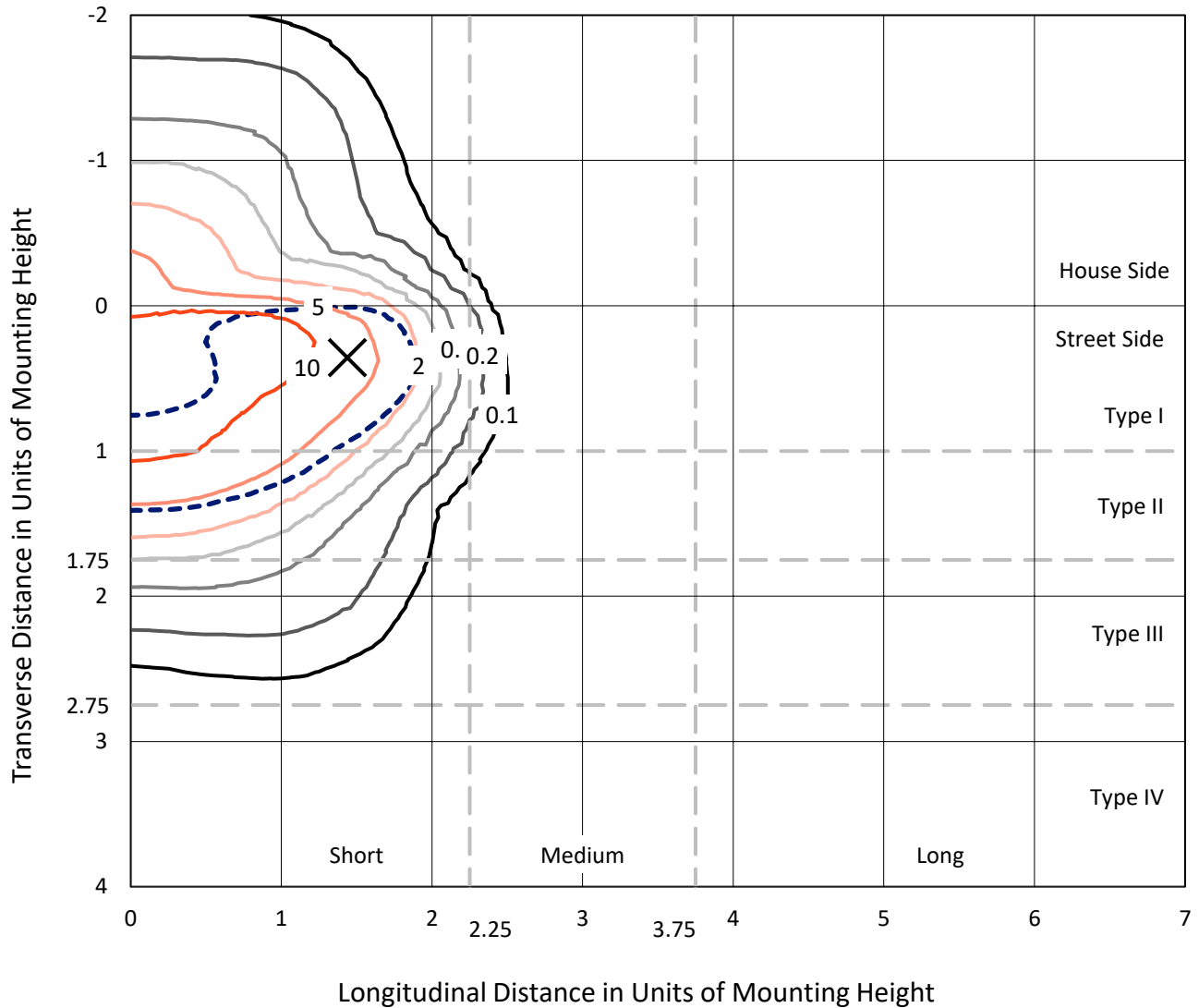
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

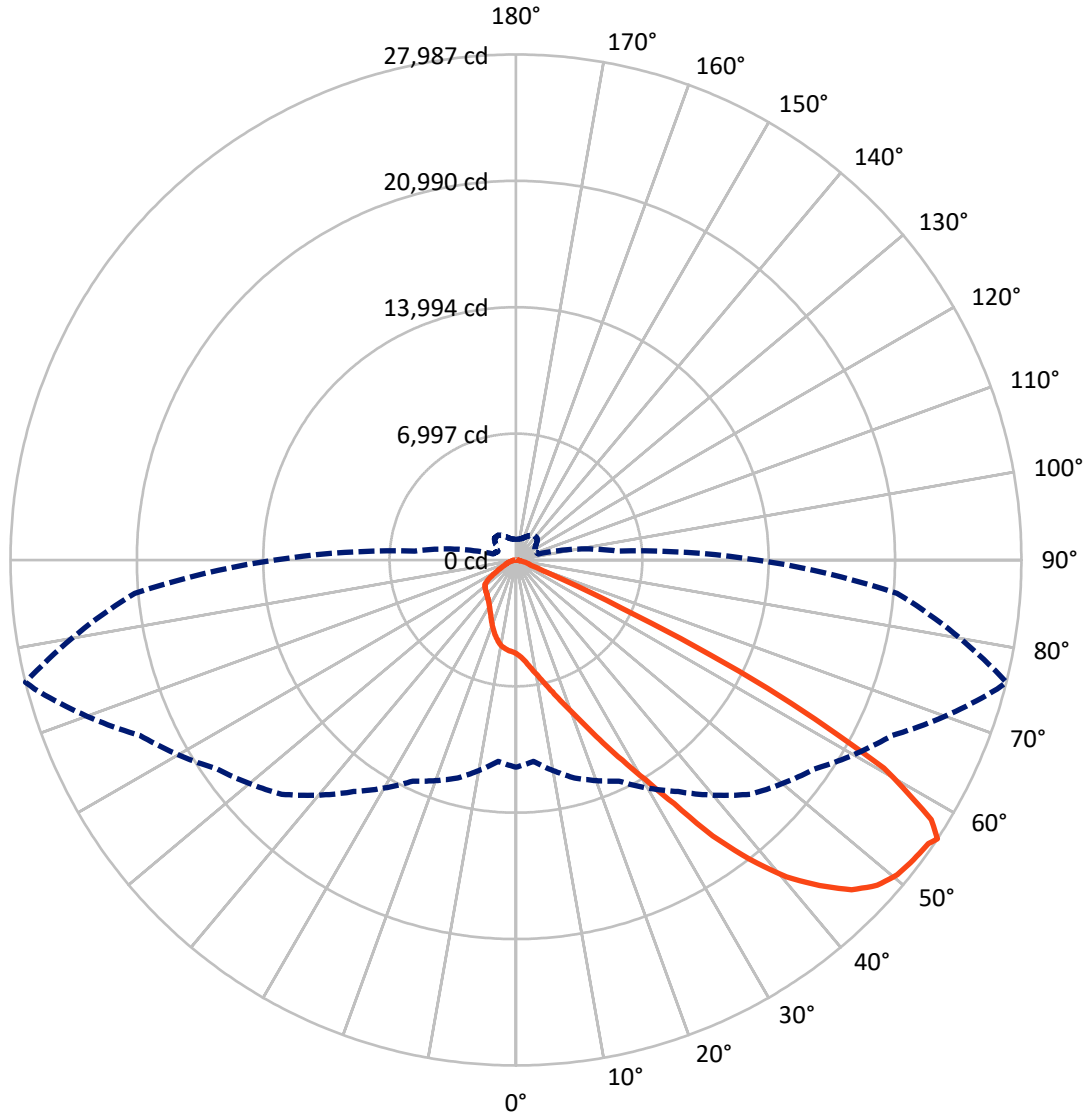
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4900.8	0.0	4900.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	26295.3	0.0	26295.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	31196.0	0.0	31196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.1	1.7
10°-20°	1680.5	5.4
20°-30°	3047.2	9.8
30°-40°	5255.0	16.8
40°-50°	8536.8	27.4
50°-60°	8998.1	28.8
60°-70°	2749.3	8.8
70°-80°	352.4	1.1
80°-90°	53.6	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°	31196.0	100.0
0°-180°	31196.0	100.0

Coefficient of Utilization

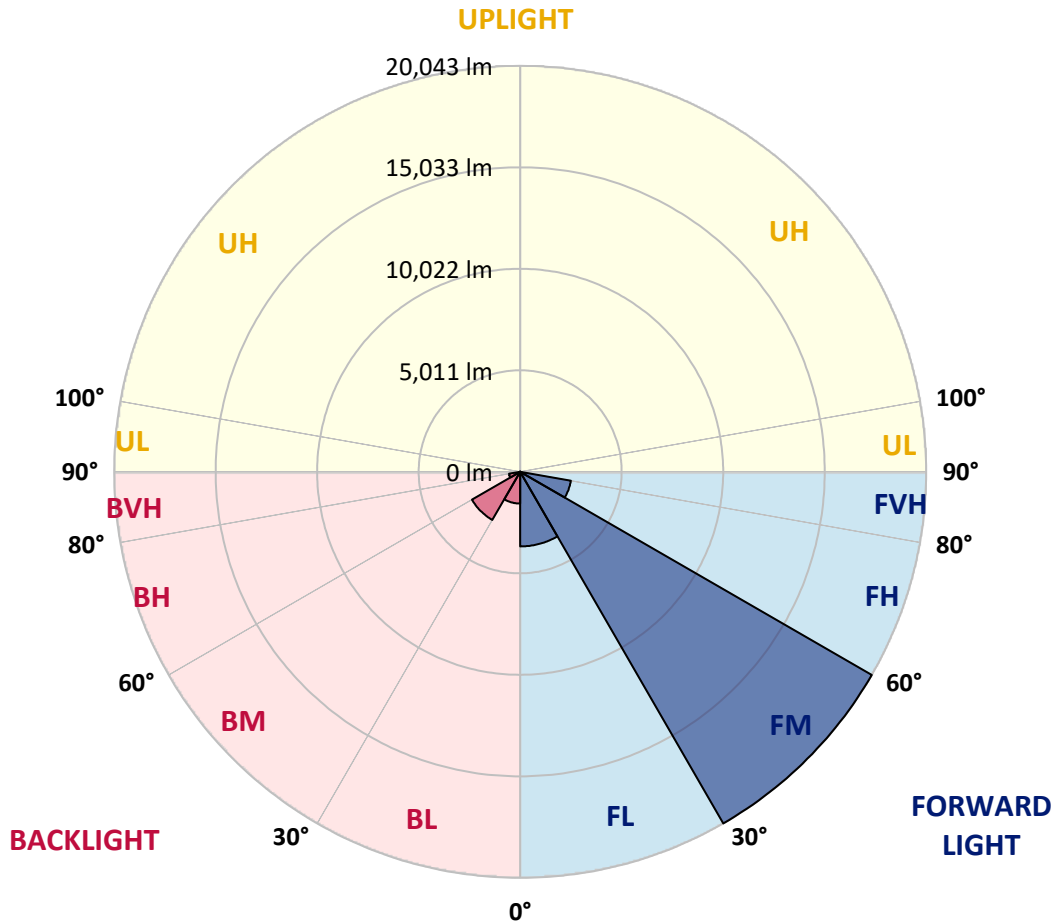


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3683.0	11.8			
FM (30°-60°)	20043.4	64.2			
FH (60°-80°)	2542.7	8.2			G2/5000
FVH (80°-90°)	26.3	0.1			G1/100
BL (0°-30°)	1567.7	5.0	B3/2500		
BM (30°-60°)	2746.6	8.8	B3/5000		
BH (60°-80°)	559.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	27.3	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°	76°	85°
0°	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6
2.5°	5980.4	5842.4	5848.2	5836.7	5819.4	5756.2	5566.4	5537.6	5411.1	5376.6	5261.6
5°	6699.2	6578.5	6647.5	6544.0	6446.2	6388.7	6078.2	5934.4	5733.2	5658.4	5497.4
7.5°	7147.8	7090.3	7067.3	7073.0	6981.0	6837.2	6699.2	6383.0	6112.7	6055.2	5715.9
10°	7366.3	7331.8	7366.3	7349.0	7389.3	7406.5	7165.0	6975.2	6578.5	6480.7	5951.7
12.5°	7418.0	7487.0	7515.8	7590.5	7688.3	7855.1	7837.8	7579.0	7050.0	6986.7	6314.0
15°	7544.5	7602.0	7573.3	7694.0	7878.1	8159.8	8309.3	8269.1	7699.8	7584.8	6733.7
17.5°	7659.5	7556.0	7653.8	7895.3	8079.3	8510.6	8872.9	9039.6	8407.1	8274.8	7119.0
20°	7814.8	7786.1	7768.8	7889.6	8217.3	8792.4	9511.2	9816.0	9200.7	9062.6	7671.0
22.5°	8286.3	8292.1	8280.6	8102.3	8338.1	8987.9	10069.0	10822.3	10149.5	10034.5	8297.8
25°	8907.4	8832.6	8775.1	8631.4	8602.6	9166.2	10632.5	12052.9	11288.1	11207.6	8976.4
27.5°	9562.9	9562.9	9390.4	9258.2	9074.1	9608.9	11150.0	13248.9	12662.4	12553.1	9568.7
30°	10276.0	10316.2	10293.2	10011.5	9896.5	10092.0	11679.1	14778.6	14238.0	14100.0	10546.3
32.5°	11328.3	11242.1	11339.8	11104.0	10764.8	10937.3	12512.9	16147.2	16285.2	16089.6	11828.6
35°	12719.9	12668.2	12604.9	12219.6	11817.1	11955.1	13691.7	17832.0	18855.6	18757.8	13122.4
37.5°	13967.7	13939.0	13887.2	13622.7	13156.9	13323.7	15031.6	19585.9	21362.8	21040.8	14951.1
40°	15278.8	15434.1	15267.3	15031.6	14606.0	14974.1	16607.2	20626.7	23473.2	23082.1	16348.4
42.5°	17055.7	16935.0	17009.7	16578.4	16348.4	16750.9	18188.5	21667.5	25112.0	24646.3	17832.0
45°	18947.6	18953.4	18752.1	18614.1	18016.0	18453.1	19160.4	22242.6	26417.4	26055.1	18953.4
47.5°	20160.9	20155.2	20373.7	20592.2	19976.9	19545.6	19821.7	22788.9	27090.2	26923.4	19361.6
50°	19971.2	20028.7	20310.5	21127.0	21449.0	20868.2	20442.7	22627.9	27395.0	27377.7	19712.4
52.5°	17372.0	17561.8	18033.3	19212.1	20833.7	21552.5	21092.5	22926.9	27544.5	27573.2	20235.7
55°	13225.9	13329.5	14226.5	15658.4	17452.5	19913.7	20833.7	23162.7	27659.5	27711.2	20868.2
56°	11472.1	11196.1	12489.9	13507.7	15652.6	18343.8	20178.2	22978.6	27590.5	27987.3	21184.5
57.5°	8660.1	8476.1	9522.7	10793.5	12857.9	15698.6	18142.5	22110.3	27124.7	27118.9	20730.2
60°	5267.4	5083.4	5888.4	6636.0	7791.8	9666.4	12259.9	17607.8	22932.6	23415.7	16785.4
62.5°	3134.0	3249.0	4042.5	4496.8	4870.6	5066.1	6342.7	10465.7	15301.8	15646.9	10414.0
65°	2087.4	2127.7	2725.7	3473.2	3640.0	2898.2	2581.9	4238.1	6636.0	6423.2	4295.6
67.5°	1288.1	1380.1	1828.6	2610.7	2892.5	2116.2	1224.8	1581.4	1828.6	1828.6	1242.1
70°	782.1	828.1	1219.1	1776.9	1983.9	1362.8	891.3	891.3	879.8	862.6	741.8
72.5°	373.8	402.5	621.0	914.3	931.6	718.8	690.0	753.3	736.1	730.3	615.3
75°	161.0	172.5	218.5	287.5	327.8	304.8	419.8	540.5	557.8	540.5	442.8
77.5°	51.8	57.5	80.5	103.5	109.3	132.3	178.3	224.3	258.8	241.5	218.5
80°	5.8	11.5	23.0	51.8	80.5	103.5	132.3	149.5	166.8	166.8	155.3
82.5°	5.8	5.8	23.0	46.0	74.8	97.8	126.5	143.8	166.8	172.5	161.0
85°	0.0	5.8	17.3	40.3	63.3	63.3	57.5	57.5	40.3	40.3	40.3
87.5°	0.0	0.0	5.8	5.8	5.8	11.5	11.5	11.5	11.5	11.5	11.5
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°	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6	5192.6
2.5°	5238.6	5227.1	5071.9	4974.1	4922.4	4818.8	4755.6	4709.6	4675.1	4634.8	4640.6
5°	5307.6	5267.4	5008.6	4830.3	4617.6	4502.6	4404.8	4324.3	4272.6	4261.1	4238.1
7.5°	5503.1	5290.4	4899.4	4577.3	4307.1	4192.0	4105.8	4054.0	4077.0	4025.3	4065.5
10°	5652.7	5336.4	4767.1	4301.3	4031.0	3944.8	3898.8	3939.0	3996.5	3973.5	3944.8
12.5°	5836.7	5382.4	4554.3	4036.8	3783.8	3720.5	3801.0	3875.8	3990.8	4036.8	3979.3
15°	6043.7	5434.1	4284.1	3732.0	3571.0	3622.8	3760.8	3893.0	4008.0	4065.5	4100.0
17.5°	6296.7	5416.9	4019.5	3490.5	3369.7	3519.3	3686.0	3806.8	3979.3	4065.5	4042.5
20°	6532.5	5359.4	3726.3	3249.0	3254.7	3392.7	3530.8	3726.3	3818.3	3933.3	3893.0
22.5°	6756.7	5255.9	3421.5	3082.2	3082.2	3295.0	3364.0	3490.5	3571.0	3628.5	3622.8
25°	7073.0	5060.4	3168.5	2921.2	2990.2	3128.2	3185.7	3226.0	3191.5	3237.5	3243.2
27.5°	7297.3	4859.1	2961.5	2777.4	2904.0	3007.5	2990.2	2967.2	2886.7	2823.5	2863.7
30°	7538.8	4623.3	2783.2	2679.7	2748.7	2840.7	2771.7	2702.7	2576.2	2472.7	2478.4
32.5°	7883.8	4514.1	2627.9	2564.7	2656.7	2668.2	2593.4	2489.9	2363.4	2265.7	2259.9
35°	8527.9	4445.1	2495.7	2489.9	2507.2	2512.9	2438.2	2311.7	2259.9	2179.4	2208.2
37.5°	9171.9	4410.6	2403.7	2380.7	2374.9	2380.7	2294.4	2173.7	2271.4	2265.7	2277.2
40°	9994.2	4565.8	2271.4	2242.7	2248.4	2248.4	2139.2	2104.7	2277.2	2294.4	2300.2
42.5°	10828.0	4761.3	2185.2	2093.1	2116.2	2116.2	2058.6	2018.4	2139.2	2024.1	2006.9
45°	11552.6	5048.9	2093.1	1943.6	2001.1	2029.9	2012.6	1943.6	1868.9	1673.4	1673.4
47.5°	11788.3	5301.9	1983.9	1799.9	1845.9	1972.4	1920.6	1776.9	1644.6	1483.6	1472.1
50°	12202.4	5577.9	1897.6	1633.1	1730.9	1886.1	1834.4	1690.6	1541.1	1426.1	1431.9
52.5°	12627.9	5894.2	1736.6	1437.6	1558.4	1817.1	1817.1	1656.1	1426.1	1345.6	1334.1
55°	13266.2	5882.7	1449.1	1178.8	1391.6	1713.6	1742.4	1483.6	1276.6	1213.3	1213.3
56°	13358.2	5618.2	1305.3	1104.1	1316.8	1684.9	1690.6	1437.6	1219.1	1150.1	1150.1
57.5°	12668.2	5071.9	1144.3	1012.1	1224.8	1633.1	1638.9	1397.3	1173.1	1075.3	1063.8
60°	9746.9	3433.0	954.6	902.8	1109.8	1472.1	1500.9	1270.8	1029.3	954.6	948.8
62.5°	5503.1	1903.4	839.6	816.6	954.6	1253.6	1339.8	1109.8	874.1	833.8	845.3
65°	2512.9	1046.6	707.3	661.3	770.6	966.1	1081.1	914.3	718.8	672.8	672.8
67.5°	920.1	713.1	603.8	523.3	540.5	626.8	701.6	592.3	477.3	408.3	425.5
70°	655.5	598.0	529.0	454.3	419.8	408.3	402.5	333.5	235.8	184.0	195.5
72.5°	529.0	494.5	442.8	385.3	327.8	276.0	235.8	172.5	109.3	74.8	69.0
75°	379.5	362.3	322.0	276.0	230.0	195.5	161.0	109.3	57.5	28.8	28.8
77.5°	195.5	195.5	189.8	172.5	143.8	115.0	92.0	63.3	34.5	11.5	11.5
80°	149.5	161.0	166.8	149.5	132.3	103.5	74.8	46.0	23.0	5.8	5.8
82.5°	143.8	166.8	178.3	155.3	132.3	97.8	74.8	46.0	23.0	5.8	5.8
85°	34.5	34.5	51.8	57.5	74.8	80.5	63.3	40.3	17.3	5.8	5.8
87.5°	11.5	11.5	11.5	11.5	11.5	11.5	5.8	5.8	5.8	5.8	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)