

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: P532743

Luminaire Tested: **GALN-SA8A-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532743
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-SA8A-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA 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: 22459 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

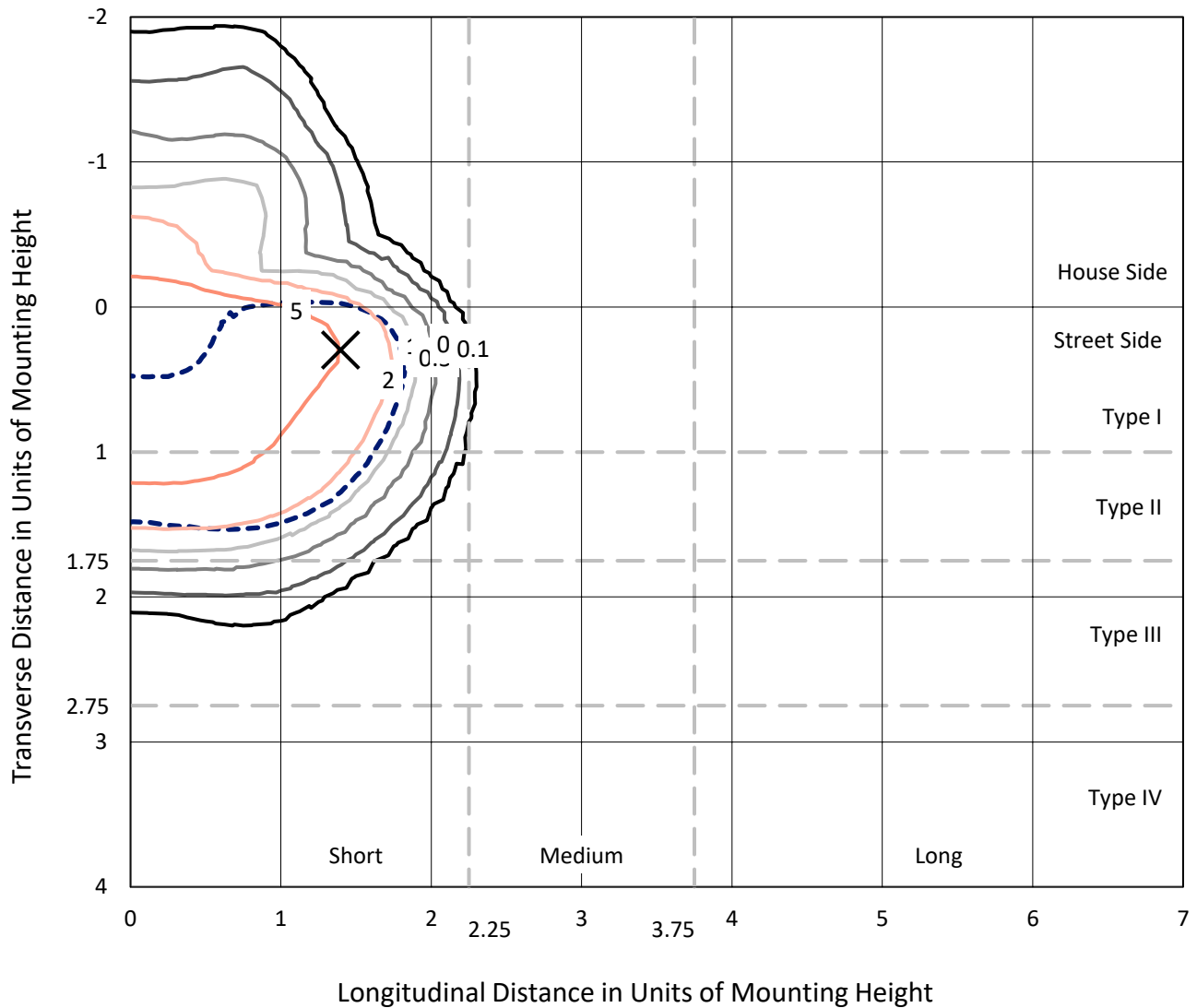
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

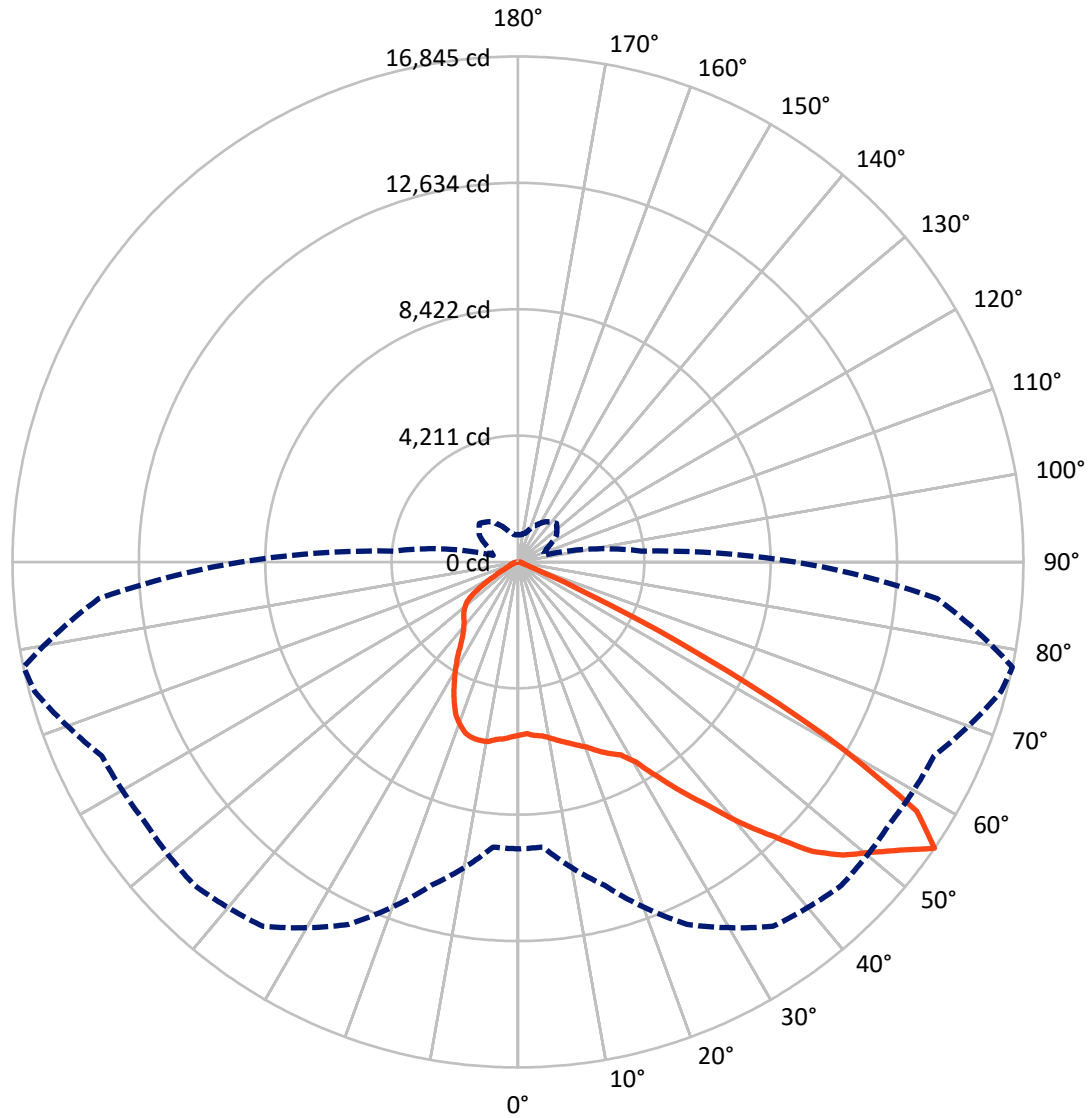
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4171.5	0.0	4171.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18287.5	0.0	18287.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	22459.0	0.0	22459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.9	2.3
10°-20°	1362.6	6.1
20°-30°	2388.4	10.6
30°-40°	3938.3	17.5
40°-50°	5730.6	25.5
50°-60°	6493.4	28.9
60°-70°	1856.6	8.3
70°-80°	144.2	0.6
80°-90°	30.0	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°	22459.0	100.0
0°-180°	22459.0	100.0

Coefficient of Utilization



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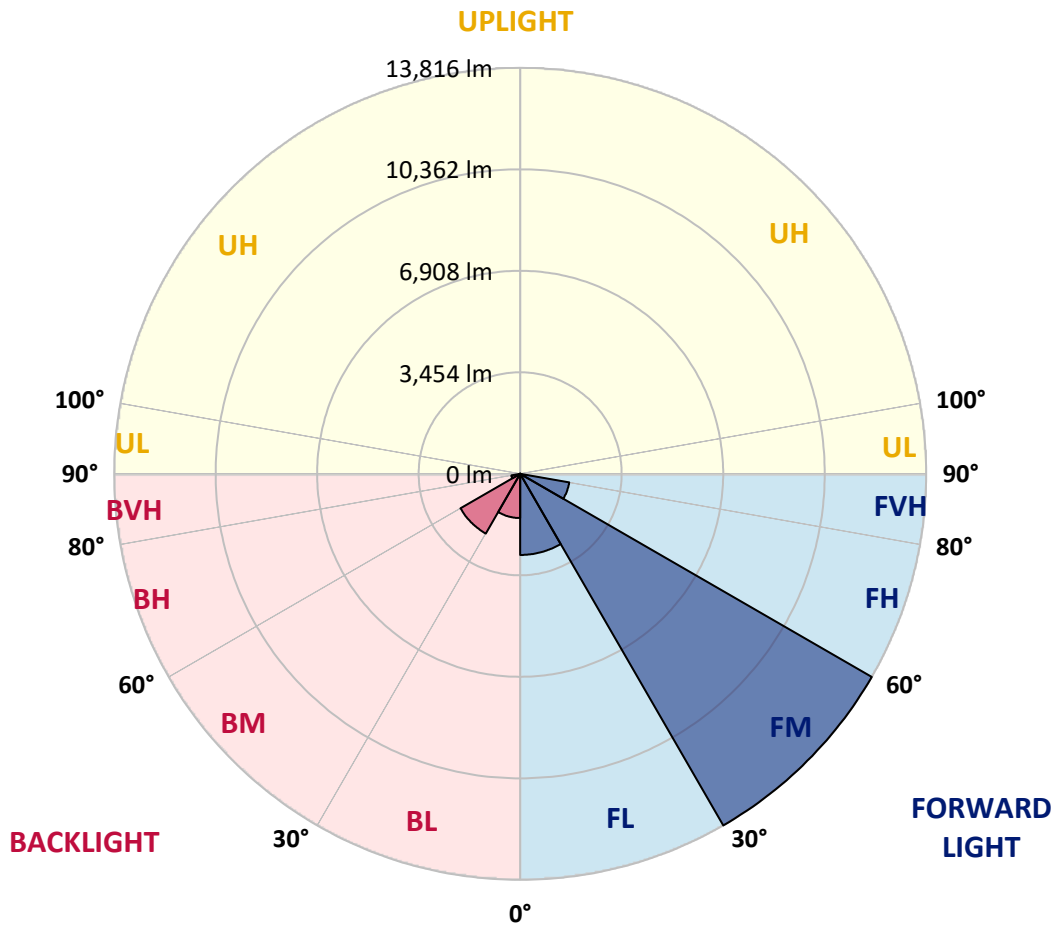
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.9	12.3			
FM (30°-60°)	13815.8	61.5			
FH (60°-80°)	1696.2	7.6			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	1505.1	6.7	B3/2500		
BM (30°-60°)	2346.5	10.4	B2/2500		
BH (60°-80°)	304.5	1.4	B1/500		G1/500
BVH (80°-90°)	15.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2
2.5°	5428.9	5481.1	5489.1	5553.4	5549.4	5657.8	5689.9	5693.9	5766.2	5730.1	5822.4
5°	5276.3	5248.2	5236.2	5348.6	5380.7	5477.1	5557.4	5605.6	5754.1	5806.3	5902.7
7.5°	5139.8	5139.8	5147.8	5248.2	5236.2	5360.6	5445.0	5593.5	5810.4	5854.5	5971.0
10°	5007.3	4959.1	5019.3	5123.7	5212.1	5268.3	5445.0	5585.5	5838.5	5967.0	6127.6
12.5°	4939.0	4963.1	4971.1	5047.4	5143.8	5312.4	5408.8	5641.7	6039.2	6115.5	6288.2
15°	5368.7	5320.5	5204.0	5135.8	5216.1	5296.4	5537.3	5774.2	6143.6	6252.1	6444.8
17.5°	5866.6	5826.4	5730.1	5545.3	5364.6	5513.2	5701.9	5918.8	6256.1	6416.7	6701.8
20°	6517.1	6452.8	6356.5	5995.1	5838.5	5677.9	5878.6	6135.6	6440.8	6585.3	6878.5
22.5°	7292.1	7292.1	7075.2	6637.5	6312.3	6159.7	6244.0	6392.6	6645.6	6842.3	7131.4
25°	8099.2	8075.1	7878.3	7424.6	6874.5	6693.8	6790.1	6894.5	6962.8	7071.2	7264.0
27.5°	9022.7	8882.2	8633.2	8131.3	7645.4	7296.1	7400.5	7308.1	7223.8	7280.0	7557.1
30°	9649.1	9737.5	9420.3	8938.4	8480.6	8091.1	8111.2	8030.9	7645.4	7725.7	7890.4
32.5°	10299.6	10355.9	10179.2	9914.2	9456.4	9002.6	8838.0	8769.8	8480.6	8516.8	8356.2
35°	10841.7	10950.1	10793.5	10677.1	10544.6	10179.2	9725.4	9946.3	9480.5	9392.1	8974.5
37.5°	11339.6	11307.5	11492.2	11371.8	11343.7	11086.7	10588.8	10632.9	10319.7	10299.6	9817.8
40°	11785.4	11793.4	12046.4	12102.6	11990.1	11532.4	10809.6	11158.9	11411.9	11436.0	10817.6
42.5°	12154.8	12263.2	12480.0	12933.8	12765.1	12002.2	11038.5	11419.9	12359.6	12508.1	11765.3
45°	12476.0	12696.9	12965.9	13371.5	13275.1	12668.8	11608.7	11958.0	13371.5	13761.0	12656.7
47.5°	12496.1	12785.2	13078.3	13680.6	13801.1	13026.1	12198.9	12809.3	14174.6	14596.2	13307.2
50°	12415.8	12568.4	13154.6	13809.1	14082.2	13608.4	13026.1	13524.0	14953.5	15218.6	13636.5
52.5°	11464.1	11580.6	12757.1	13929.6	14588.1	14266.9	14122.3	14519.9	15748.6	15945.4	13945.7
55°	9556.8	9536.7	11154.9	13323.3	14821.0	15242.7	15154.3	15294.9	16668.1	16844.8	14022.0
57.5°	6537.2	6902.6	8299.9	11094.7	13395.6	15013.8	15106.1	14873.2	15596.0	15664.3	12223.0
60°	3525.6	3678.2	4802.5	7404.5	10199.3	12235.1	12476.0	12054.4	11998.2	11805.4	8725.6
62.5°	1401.4	1477.7	2116.1	3666.1	5557.4	7436.6	7954.6	7781.9	7412.5	6906.6	4517.4
65°	666.6	714.8	1052.0	1714.6	2465.5	3099.9	3617.9	3778.5	2786.7	2509.7	1489.7
67.5°	453.7	489.9	767.0	979.8	879.4	919.5	1196.6	1112.3	654.5	558.1	413.6
70°	345.3	369.4	614.4	666.6	393.5	277.1	309.2	289.1	269.0	273.1	269.0
72.5°	244.9	265.0	449.7	393.5	172.7	128.5	164.6	196.8	196.8	196.8	192.7
75°	148.6	168.6	261.0	152.6	68.3	68.3	104.4	132.5	140.5	144.6	136.5
77.5°	76.3	96.4	88.3	44.2	44.2	52.2	76.3	92.4	100.4	100.4	96.4
80°	16.1	16.1	16.1	24.1	44.2	56.2	76.3	84.3	96.4	96.4	88.3
82.5°	0.0	4.0	12.0	24.1	40.2	52.2	72.3	84.3	96.4	100.4	92.4
85°	0.0	4.0	8.0	16.1	28.1	32.1	28.1	24.1	24.1	24.1	24.1
87.5°	0.0	0.0	4.0	4.0	4.0	8.0	8.0	8.0	8.0	8.0	8.0
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°	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2	5774.2
2.5°	5830.4	5842.5	5822.4	5818.4	5802.3	5850.5	5734.1	5706.0	5778.2	5710.0	5726.0
5°	5906.7	5934.8	5898.7	5838.5	5750.1	5613.6	5497.2	5344.6	5272.3	5220.1	5212.1
7.5°	5962.9	5983.0	5946.9	5754.1	5489.1	5143.8	4886.8	4698.1	4549.5	4505.3	4433.1
10°	6191.8	6195.8	6015.1	5589.5	5071.5	4617.8	4224.3	3935.1	3786.6	3694.2	3654.1
12.5°	6344.4	6336.4	5971.0	5264.3	4573.6	3971.3	3521.6	3172.2	3035.7	2991.5	2963.4
15°	6537.2	6493.0	5866.6	4931.0	3931.1	3280.6	2875.1	2634.1	2622.1	2594.0	2622.1
17.5°	6689.7	6565.3	5714.0	4324.6	3316.8	2702.4	2437.4	2453.4	2485.6	2513.7	2517.7
20°	6938.7	6681.7	5364.6	3794.6	2746.6	2316.9	2312.9	2385.2	2465.5	2497.6	2529.7
22.5°	7127.4	6729.9	4991.2	3228.4	2280.8	2160.3	2228.6	2337.0	2397.2	2429.3	2477.5
25°	7195.7	6597.4	4493.3	2662.2	2055.9	2088.0	2192.4	2264.7	2341.0	2377.1	2357.1
27.5°	7264.0	6529.1	3899.0	2192.4	1935.4	2039.9	2128.2	2200.5	2224.6	2272.7	2304.9
30°	7428.6	6292.2	3365.0	1895.3	1875.2	2007.7	2072.0	2096.1	2160.3	2188.4	2188.4
32.5°	7561.1	6199.9	2798.8	1754.8	1867.2	2023.8	2031.8	2031.8	2039.9	2019.8	2011.7
35°	7834.1	5882.6	2292.8	1670.4	1863.2	2027.8	2047.9	1979.6	1794.9	1722.6	1702.6
37.5°	8171.4	5677.9	1919.4	1650.4	1891.3	2076.0	2108.1	1851.1	1610.2	1493.7	1473.7
40°	8581.0	5533.3	1674.4	1642.3	1955.5	2188.4	2092.1	1750.7	1437.5	1268.9	1260.9
42.5°	9058.9	5400.8	1509.8	1638.3	2035.8	2304.9	2076.0	1666.4	1260.9	1148.4	1164.5
45°	9440.3	5328.5	1397.4	1610.2	2063.9	2373.1	2088.0	1517.8	1188.6	1116.3	1124.3
47.5°	9737.5	5175.9	1305.0	1562.0	2059.9	2397.2	1979.6	1457.6	1152.4	1172.5	1192.6
50°	9745.5	4971.1	1188.6	1457.6	1999.7	2353.1	1855.1	1401.4	1144.4	1228.7	1268.9
52.5°	9637.1	4682.0	1064.1	1309.0	1859.2	2200.5	1742.7	1377.3	1108.3	1100.2	1148.4
55°	9251.6	4139.9	855.3	1060.1	1570.0	1815.0	1642.3	1333.1	999.8	907.5	915.5
57.5°	7476.8	2967.4	630.4	758.9	1112.3	1329.1	1481.7	1313.1	899.5	771.0	775.0
60°	4629.8	1682.5	461.8	518.0	686.6	807.1	1200.6	1220.7	803.1	650.5	642.5
62.5°	2377.1	831.2	357.4	365.4	421.6	473.8	823.2	1023.9	726.8	618.4	618.4
65°	795.1	409.6	313.2	281.1	281.1	293.1	497.9	710.7	614.4	518.0	518.0
67.5°	341.3	305.2	273.1	244.9	224.9	212.8	281.1	413.6	457.8	393.5	377.5
70°	265.0	257.0	236.9	204.8	176.7	160.6	164.6	212.8	261.0	253.0	244.9
72.5°	196.8	196.8	188.7	160.6	136.5	116.4	108.4	112.4	124.5	128.5	132.5
75°	136.5	140.5	140.5	124.5	100.4	84.3	72.3	60.2	48.2	40.2	36.1
77.5°	92.4	96.4	104.4	92.4	76.3	56.2	44.2	32.1	20.1	8.0	8.0
80°	80.3	92.4	100.4	92.4	80.3	60.2	44.2	24.1	12.0	0.0	0.0
82.5°	84.3	92.4	104.4	88.3	76.3	56.2	44.2	28.1	12.0	4.0	0.0
85°	20.1	20.1	24.1	28.1	36.1	40.2	32.1	20.1	12.0	4.0	0.0
87.5°	8.0	8.0	8.0	8.0	8.0	4.0	4.0	4.0	4.0	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)