

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: P382950

Luminaire Tested: **GLEON-SA3A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9427.3 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

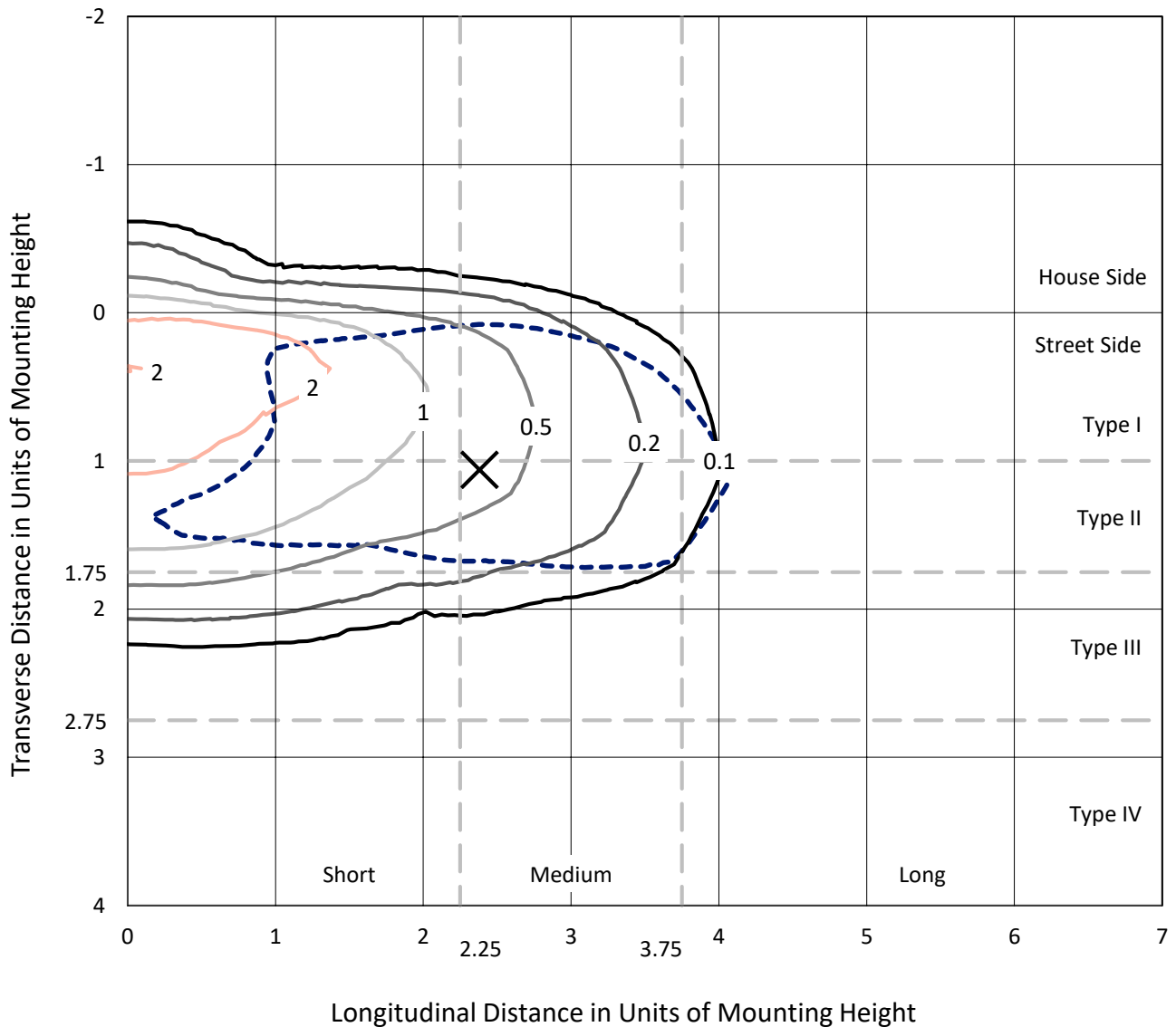
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

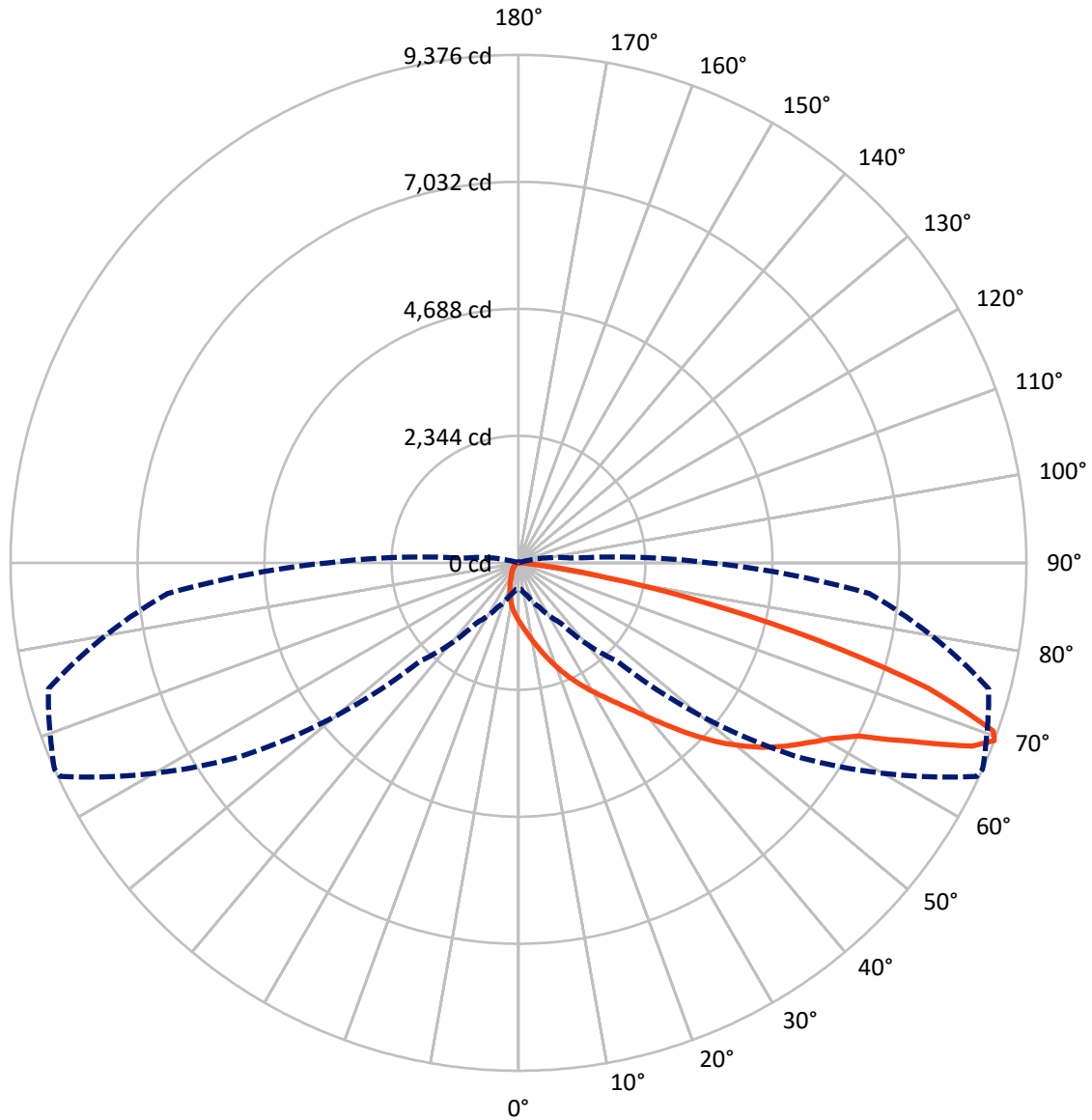
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	565.5	0.0	565.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	8861.8	0.0	8861.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	9427.3	0.0	9427.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.1
10°-20°	308.6	3.3
20°-30°	537.5	5.7
30°-40°	943.0	10.0
40°-50°	1578.4	16.7
50°-60°	2320.1	24.6
60°-70°	2382.2	25.3
70°-80°	1176.0	12.5
80°-90°	77.8	0.8
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°	9427.3	100.0
0°-180°	9427.3	100.0

Coefficient of Utilization

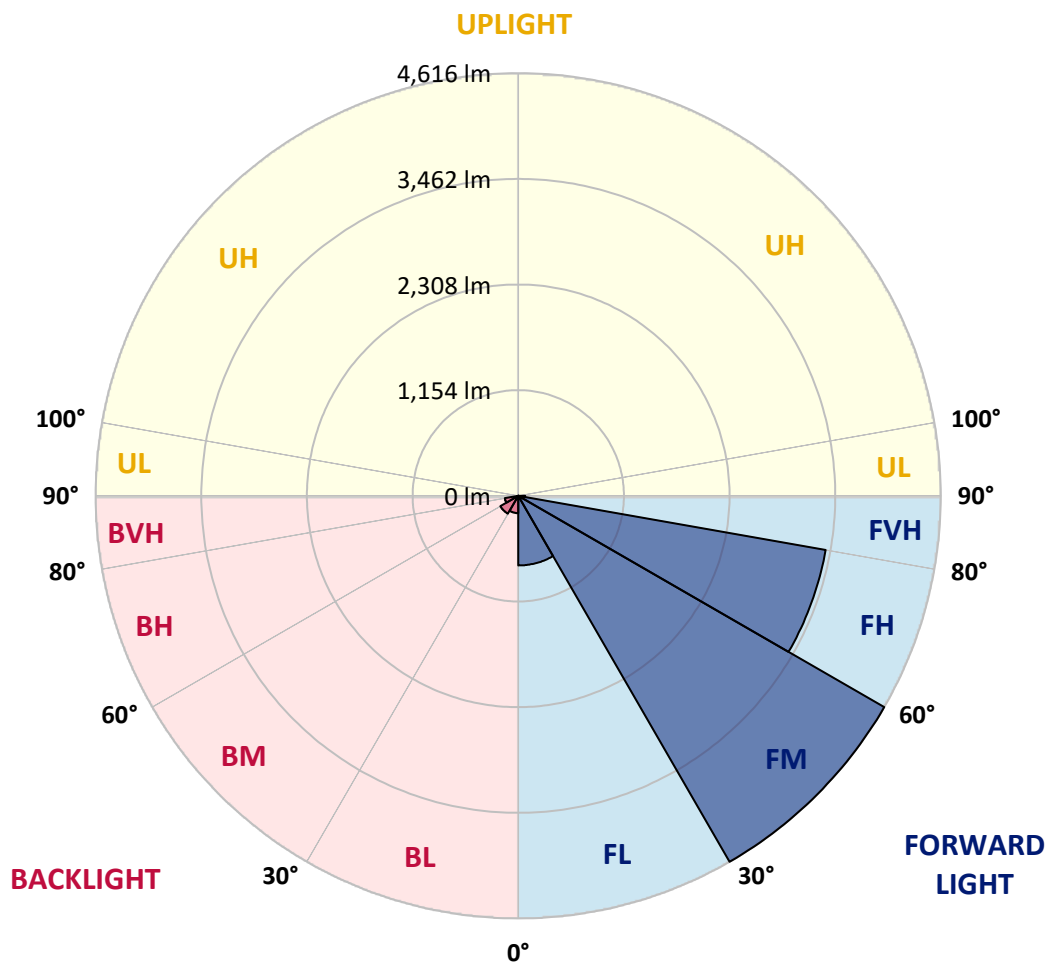


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.7	8.1			
FM (30°-60°)	4616.0	49.0			
FH (60°-80°)	3409.2	36.2			G2/5000
FVH (80°-90°)	75.9	0.8			G1/100
BL (0°-30°)	189.1	2.0	B1/500		
BM (30°-60°)	225.5	2.4	B1/1000		
BH (60°-80°)	149.0	1.6	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1262.7	1257.3	1255.1	1245.2	1228.2	1215.2	1190.1	1161.1	1155.7	1127.5	1093.0
5°	1426.6	1422.1	1418.9	1405.1	1387.6	1354.9	1309.3	1255.1	1244.8	1191.1	1122.1
7.5°	1540.8	1548.8	1548.8	1539.8	1518.0	1493.3	1437.4	1363.4	1350.5	1268.1	1161.1
10°	1607.5	1617.4	1625.0	1632.5	1629.5	1619.6	1566.8	1483.5	1467.7	1358.6	1206.3
12.5°	1613.7	1623.6	1645.1	1676.9	1707.8	1730.2	1697.0	1616.4	1598.5	1463.3	1260.0
15°	1578.8	1589.1	1622.3	1684.1	1758.9	1824.2	1835.0	1763.8	1745.4	1588.2	1327.2
17.5°	1518.0	1524.7	1572.1	1657.6	1775.0	1895.0	1959.9	1921.8	1904.8	1731.1	1402.0
20°	1472.7	1477.6	1519.3	1611.1	1765.1	1939.3	2078.1	2089.7	2071.9	1884.2	1483.0
22.5°	1550.2	1559.1	1560.4	1603.9	1738.3	1961.2	2182.0	2255.0	2241.5	2046.7	1562.7
25°	1761.9	1772.3	1738.3	1711.3	1761.1	1971.1	2271.1	2424.3	2413.5	2221.8	1642.9
27.5°	2041.9	2052.6	2008.7	1928.6	1880.6	2008.2	2350.3	2596.1	2595.8	2407.2	1729.3
30°	2316.8	2327.5	2282.8	2202.6	2092.4	2113.5	2418.9	2776.2	2778.8	2598.4	1821.1
32.5°	2605.1	2618.6	2572.5	2469.4	2354.4	2295.2	2515.1	2957.1	2972.3	2820.1	1924.5
35°	2932.9	2934.7	2869.7	2761.9	2629.3	2538.4	2669.6	3159.9	3196.1	3094.5	2055.7
37.5°	3254.4	3267.4	3214.1	3043.9	2922.2	2819.1	2899.3	3413.4	3464.8	3429.9	2227.2
40°	3492.6	3519.9	3512.3	3328.7	3213.2	3139.8	3184.5	3714.6	3780.0	3820.4	2443.4
42.5°	3642.2	3662.8	3697.7	3587.1	3482.3	3494.4	3521.2	4065.7	4146.3	4265.5	2692.0
45°	3813.7	3823.5	3852.6	3803.8	3733.1	3854.8	3878.6	4461.1	4545.8	4744.1	2967.8
47.5°	4023.2	4046.5	4054.6	4009.8	3977.5	4173.6	4222.9	4820.7	4939.3	5256.8	3259.8
50°	4290.1	4296.3	4310.2	4281.1	4248.9	4447.7	4531.9	5198.1	5306.1	5771.3	3547.7
52.5°	4551.1	4573.5	4621.9	4603.5	4590.5	4680.9	4807.3	5538.4	5658.9	6200.3	3835.1
55°	4626.3	4645.6	4812.7	4926.8	5032.5	4968.4	5070.5	5843.4	5973.6	6583.5	4111.9
57.5°	4325.9	4364.9	4654.1	4951.5	5389.7	5415.3	5432.3	6156.4	6273.2	6877.2	4399.8
60°	3566.4	3574.1	4048.7	4558.7	5330.7	5805.3	5960.7	6492.6	6590.7	7150.8	4744.6
62.5°	2268.4	2345.8	2866.7	3586.6	4705.6	5748.9	6599.6	7001.3	7037.1	7479.1	5238.9
65°	1080.5	1130.6	1505.8	2216.0	3408.4	5026.6	7040.7	7921.5	7937.6	8129.7	5899.3
67.5°	598.2	622.4	801.0	1192.8	1992.6	3554.8	6862.5	9011.3	9026.6	8794.2	6478.7
69°	467.9	488.5	629.1	899.1	1350.9	2555.0	6210.1	9330.6	9375.8	8984.5	6499.3
70°	397.2	417.3	541.8	759.4	1086.3	1974.2	5527.7	9251.4	9299.3	8966.5	6345.8
72.5°	243.1	254.8	360.9	534.6	728.1	993.1	3408.9	7823.9	7904.9	8225.1	5453.8
75°	163.9	170.2	225.7	369.0	520.7	511.3	1771.0	5514.7	5690.3	6398.1	4028.1
77.5°	117.3	123.2	151.4	238.7	364.9	337.6	802.0	3427.3	3464.8	3837.4	2196.8
80°	66.7	72.1	107.0	142.0	247.6	225.2	318.8	1637.0	1655.8	1645.6	733.4
82.5°	34.9	39.4	58.7	93.6	158.9	147.3	132.6	548.0	550.7	458.0	160.8
85°	6.7	8.1	29.1	64.0	82.0	64.0	54.2	128.6	131.2	116.0	39.9
87.5°	0.0	0.5	11.6	14.3	16.1	16.6	17.4	25.1	26.8	36.2	10.7
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°	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1077.8	1061.7	1030.8	995.0	967.2	939.8	918.4	896.0	888.0	883.9	883.5
5°	1088.5	1054.5	989.1	922.0	866.9	814.9	777.7	742.4	725.9	718.2	715.1
7.5°	1106.4	1051.8	946.5	844.1	764.8	699.9	648.4	609.9	590.6	582.6	579.4
10°	1127.5	1048.3	896.9	761.6	660.5	593.3	542.3	504.2	483.1	474.2	469.7
12.5°	1152.1	1041.9	839.6	678.4	571.3	504.2	442.4	395.3	371.2	360.9	355.9
15°	1182.6	1035.7	779.5	600.0	493.0	411.1	343.5	311.6	306.8	304.9	305.4
17.5°	1212.6	1025.8	714.2	522.5	410.6	321.0	286.5	284.8	285.7	285.7	285.7
20°	1239.4	1003.5	643.0	456.3	332.3	270.9	263.7	260.6	258.3	256.5	254.3
22.5°	1260.5	973.5	574.5	390.4	271.4	248.1	236.9	227.0	218.9	213.6	210.9
25°	1274.8	933.6	511.8	327.3	244.1	225.7	205.5	188.9	176.4	168.8	165.6
27.5°	1285.5	890.7	455.8	274.1	225.2	199.7	173.3	153.6	140.6	133.9	131.2
30°	1293.2	841.8	406.5	240.9	204.2	172.4	144.2	124.9	115.5	112.0	110.1
32.5°	1300.3	787.6	360.0	225.2	184.4	147.3	120.9	106.1	100.3	95.9	94.5
35°	1318.2	737.5	315.7	208.7	164.3	125.9	103.9	93.2	87.3	84.6	83.7
37.5°	1360.8	700.3	273.1	191.6	144.2	108.8	90.9	83.3	77.9	75.3	74.3
40°	1429.3	681.5	237.4	173.3	124.5	95.9	82.3	75.3	69.4	65.4	64.5
42.5°	1530.1	684.2	212.2	154.9	108.8	85.5	74.3	65.9	59.5	56.0	55.1
45°	1652.3	703.9	194.8	137.0	95.9	77.5	65.4	56.5	50.6	47.5	46.6
47.5°	1784.8	735.6	180.4	120.9	85.5	69.9	56.5	47.0	42.1	39.4	38.9
50°	1924.5	766.6	165.6	105.3	76.6	62.2	47.5	38.9	34.9	32.7	31.8
52.5°	2066.0	802.4	152.2	90.9	68.9	53.3	39.4	31.8	28.7	26.8	26.0
55°	2218.2	829.3	139.3	79.7	61.4	45.2	32.7	26.5	23.8	21.5	21.1
57.5°	2397.3	870.9	125.9	68.9	52.4	37.6	26.8	21.1	18.8	16.6	16.1
60°	2639.2	919.7	111.5	60.9	42.9	30.9	22.0	17.0	14.3	12.6	12.1
62.5°	2957.9	973.9	93.6	53.3	34.9	25.1	17.4	13.4	10.3	8.1	8.1
65°	3362.3	1062.2	76.6	44.8	28.7	20.6	13.4	9.9	5.8	3.5	3.5
67.5°	3598.3	1077.3	61.8	36.7	23.3	17.4	11.2	6.7	1.8	0.5	0.0
69°	3522.6	989.1	52.4	31.3	20.1	16.6	10.3	4.9	0.9	0.0	0.0
70°	3380.2	904.5	46.1	27.8	18.4	15.6	9.9	3.5	0.9	0.0	0.0
72.5°	2793.2	643.9	34.9	20.6	13.4	13.9	8.9	2.2	0.9	0.0	0.0
75°	2034.7	391.3	25.1	14.3	8.5	10.3	6.2	0.9	0.5	0.0	0.0
77.5°	1131.9	184.4	15.6	8.1	5.4	6.2	3.2	0.0	0.0	0.0	0.0
80°	367.6	50.1	7.2	4.5	3.2	3.5	1.3	0.0	0.0	0.0	0.0
82.5°	68.1	14.3	4.0	2.2	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	14.8	5.8	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.8	0.5	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)