

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: P322046

Luminaire Tested: **GLEON-SA2C-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322046
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-SA2C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 7568 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

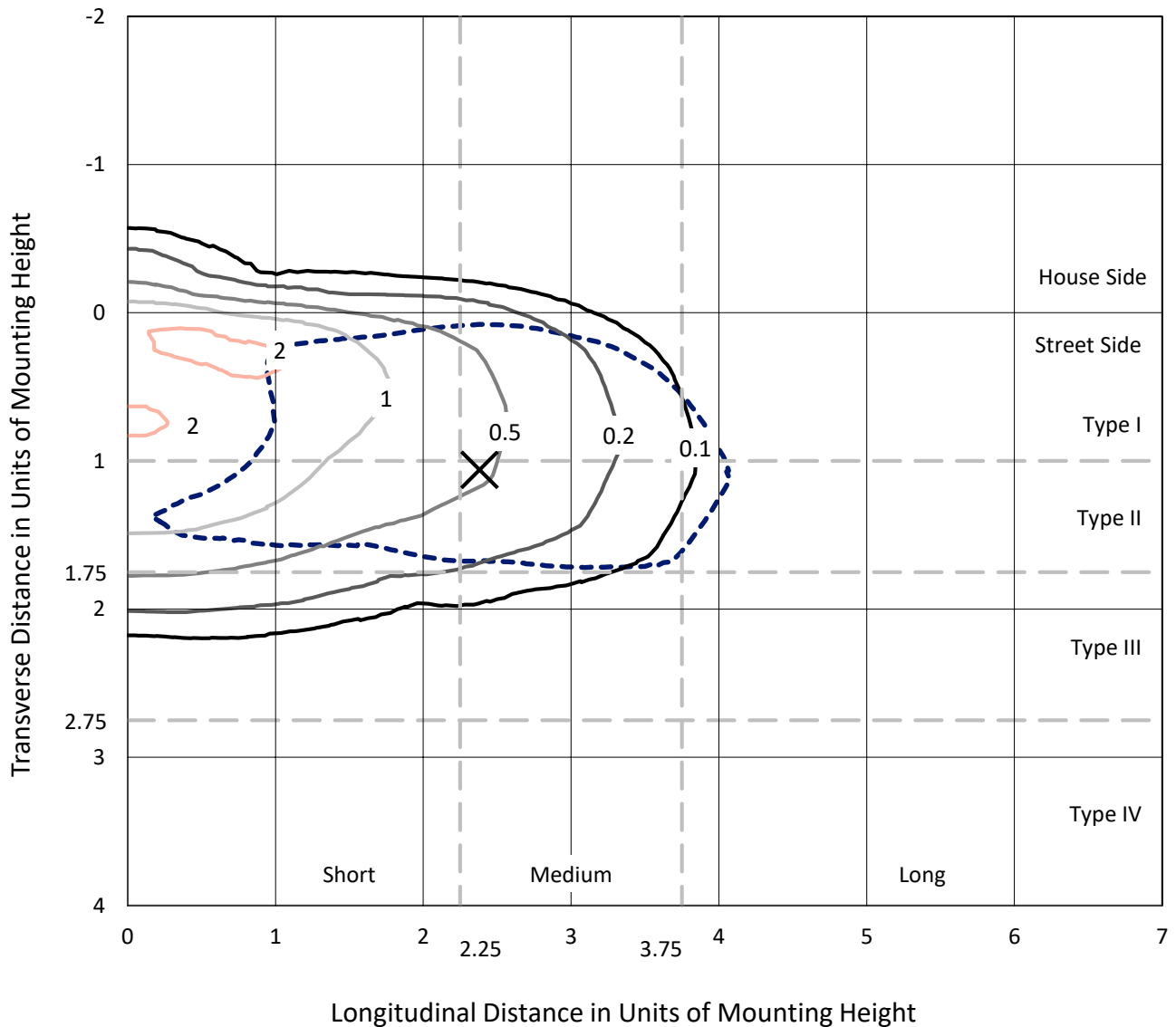
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

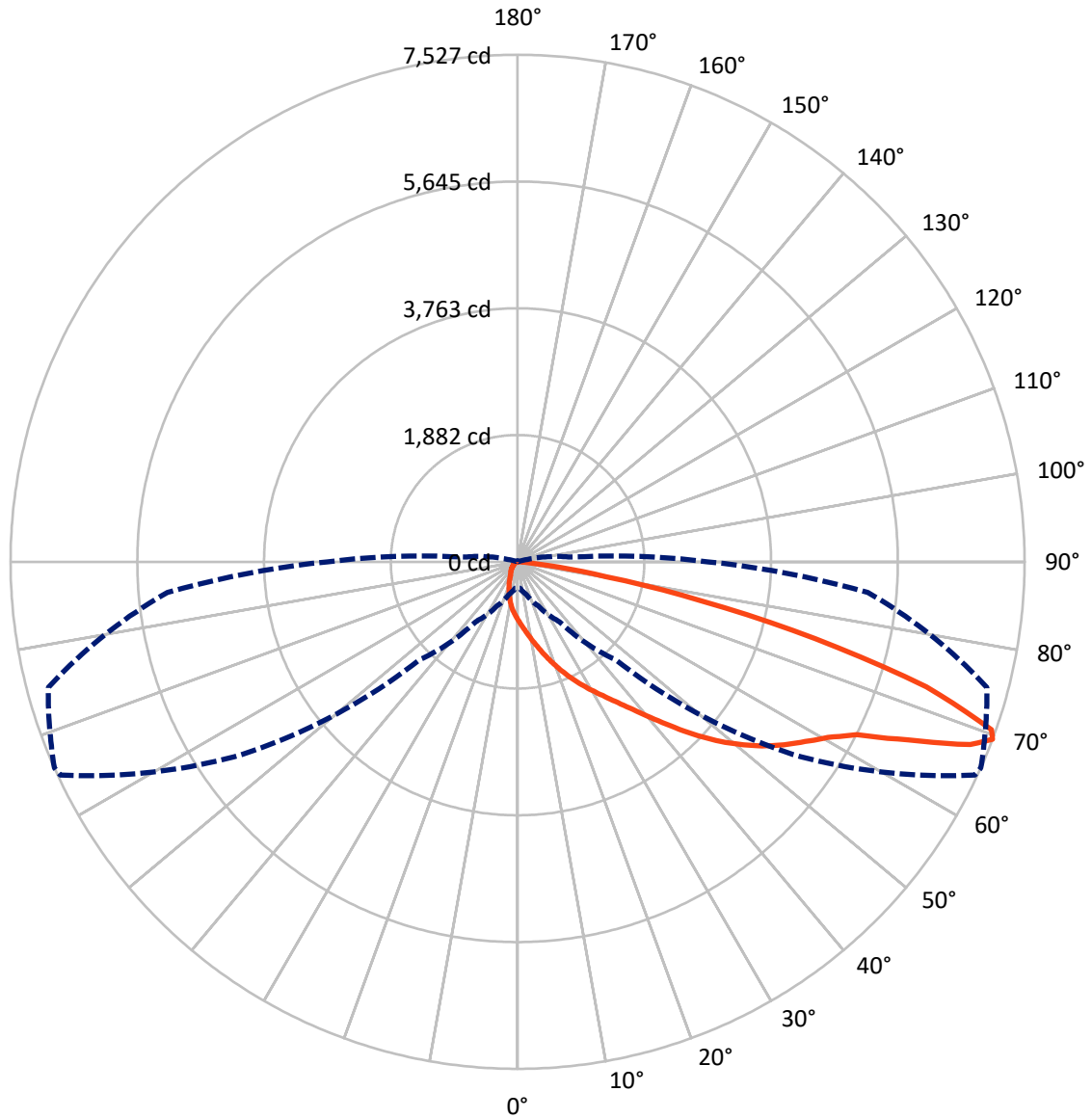
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	454.0	0.0	454.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	7114.0	0.0	7114.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	7568.0	0.0	7568.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.1
10°-20°	247.8	3.3
20°-30°	431.5	5.7
30°-40°	757.0	10.0
40°-50°	1267.1	16.7
50°-60°	1862.5	24.6
60°-70°	1912.4	25.3
70°-80°	944.1	12.5
80°-90°	62.4	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°	7568.0	100.0
0°-180°	7568.0	100.0

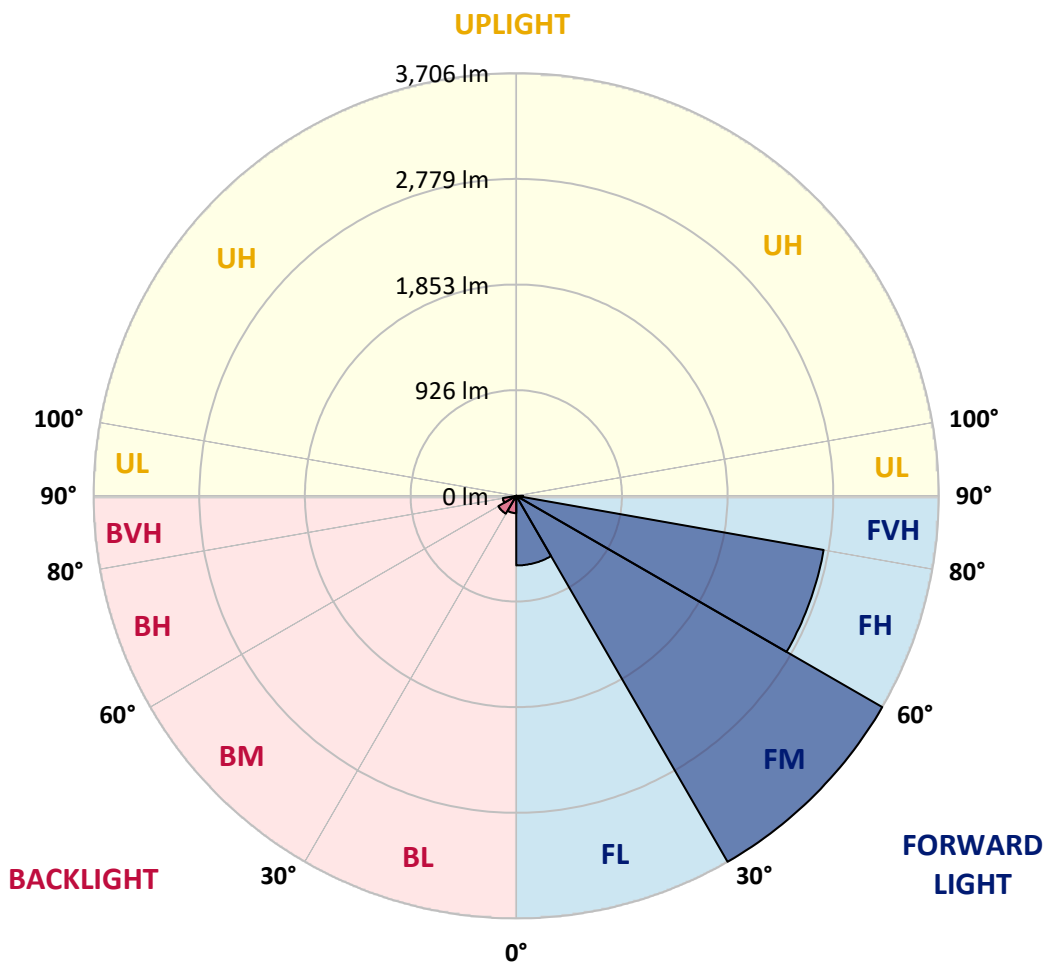


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.7	8.1			
FM (30°-60°)	3705.7	49.0			
FH (60°-80°)	2736.8	36.2			G2/5000
FVH (80°-90°)	60.9	0.8			G1/100
BL (0°-30°)	151.8	2.0	B1/500		
BM (30°-60°)	181.0	2.4	B0/220		
BH (60°-80°)	119.6	1.6	B1/500		G1/500
BVH (80°-90°)	1.5	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°	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3
2.5°	1013.7	1009.4	1007.6	999.7	986.0	975.6	955.4	932.1	927.8	905.1	877.4
5°	1145.2	1141.6	1139.1	1128.0	1114.0	1087.7	1051.1	1007.6	999.3	956.2	900.8
7.5°	1236.9	1243.4	1243.4	1236.2	1218.6	1198.8	1153.9	1094.6	1084.1	1018.0	932.1
10°	1290.5	1298.4	1304.5	1310.6	1308.1	1300.2	1257.7	1190.9	1178.3	1090.6	968.4
12.5°	1295.5	1303.4	1320.7	1346.2	1371.0	1388.9	1362.3	1297.6	1283.3	1174.7	1011.5
15°	1267.5	1275.7	1302.3	1351.9	1412.0	1464.4	1473.1	1415.9	1401.2	1275.0	1065.4
17.5°	1218.6	1224.0	1262.1	1330.7	1424.9	1521.2	1573.4	1542.8	1529.1	1389.7	1125.5
20°	1182.3	1186.2	1219.6	1293.3	1417.0	1556.8	1668.2	1677.6	1663.2	1512.6	1190.5
22.5°	1244.4	1251.6	1252.7	1287.6	1395.4	1574.4	1751.6	1810.2	1799.4	1643.1	1254.5
25°	1414.5	1422.7	1395.4	1373.9	1413.8	1582.3	1823.2	1946.1	1937.5	1783.6	1318.9
27.5°	1639.1	1647.8	1612.5	1548.2	1509.7	1612.2	1886.8	2084.1	2083.8	1932.4	1388.2
30°	1859.8	1868.5	1832.5	1768.2	1679.7	1696.6	1941.8	2228.6	2230.8	2085.9	1461.9
32.5°	2091.3	2102.1	2065.1	1982.4	1890.0	1842.6	2019.1	2373.9	2386.1	2263.9	1545.0
35°	2354.5	2355.9	2303.8	2217.1	2110.7	2037.8	2143.1	2536.7	2565.8	2484.2	1650.3
37.5°	2612.5	2623.0	2580.2	2443.6	2345.8	2263.2	2327.5	2740.2	2781.5	2753.5	1787.9
40°	2803.8	2825.7	2819.6	2672.2	2579.5	2520.5	2556.5	2982.1	3034.5	3066.9	1961.6
42.5°	2923.8	2940.4	2968.4	2879.6	2795.5	2805.2	2826.8	3263.9	3328.6	3424.2	2161.1
45°	3061.5	3069.4	3092.8	3053.6	2996.8	3094.6	3113.6	3581.3	3649.2	3808.5	2382.5
47.5°	3229.7	3248.4	3254.9	3219.0	3193.1	3350.5	3390.1	3869.9	3965.2	4220.0	2616.9
50°	3444.0	3449.0	3460.1	3436.8	3410.9	3570.5	3638.1	4173.0	4259.6	4633.1	2848.0
52.5°	3653.5	3671.5	3710.3	3695.6	3685.2	3757.8	3859.1	4446.1	4542.8	4977.4	3078.8
55°	3713.9	3729.4	3863.5	3955.1	4040.0	3988.6	4070.5	4690.9	4795.5	5285.1	3300.9
57.5°	3472.7	3504.0	3736.2	3974.9	4326.8	4347.3	4361.0	4942.2	5036.0	5520.9	3532.0
60°	2863.1	2869.2	3250.2	3659.6	4279.4	4660.4	4785.1	5212.1	5290.9	5740.6	3808.8
62.5°	1821.0	1883.2	2301.3	2879.3	3777.5	4615.1	5298.1	5620.5	5649.3	6004.0	4205.7
65°	867.4	907.6	1208.9	1779.0	2736.2	4035.3	5652.1	6359.2	6372.1	6526.3	4735.9
67.5°	480.2	499.6	643.1	957.6	1599.6	2853.7	5509.1	7234.1	7246.3	7059.8	5201.0
69°	375.6	392.2	505.0	721.8	1084.5	2051.1	4985.3	7490.4	7526.7	7212.5	5217.5
70°	318.8	335.0	434.9	609.6	872.0	1584.9	4437.5	7426.8	7465.2	7198.2	5094.2
72.5°	195.2	204.5	289.7	429.2	584.5	797.3	2736.6	6280.8	6345.9	6602.9	4378.2
75°	131.6	136.6	181.2	296.2	418.1	410.5	1421.7	4427.1	4568.0	5136.3	3233.7
77.5°	94.2	98.9	121.5	191.6	293.0	271.0	643.8	2751.3	2781.5	3080.6	1763.5
80°	53.6	57.9	85.9	113.9	198.8	180.8	255.9	1314.2	1329.3	1321.0	588.8
82.5°	28.0	31.6	47.1	75.1	127.6	118.3	106.4	440.0	442.1	367.7	129.0
85°	5.4	6.5	23.4	51.4	65.8	51.4	43.5	103.2	105.3	93.1	32.0
87.5°	0.0	0.4	9.3	11.5	12.9	13.3	14.0	20.1	21.6	29.1	8.6
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°	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3
2.5°	865.2	852.3	827.5	798.7	776.4	754.5	737.2	719.3	712.8	709.6	709.2
5°	873.8	846.5	794.0	740.1	695.9	654.2	624.4	596.0	582.7	576.6	574.1
7.5°	888.2	844.4	759.9	677.6	614.0	561.8	520.5	489.6	474.1	467.7	465.1
10°	905.1	841.5	720.0	611.4	530.2	476.3	435.3	404.8	387.9	380.7	377.1
12.5°	924.9	836.5	674.0	544.6	458.7	404.8	355.1	317.4	298.0	289.7	285.8
15°	949.3	831.4	625.8	481.7	395.8	330.0	275.7	250.2	246.2	244.8	245.2
17.5°	973.4	823.5	573.3	419.5	329.6	257.7	230.1	228.6	229.3	229.3	229.3
20°	995.0	805.5	516.2	366.3	266.7	217.5	211.7	209.2	207.4	206.0	204.2
22.5°	1011.9	781.5	461.2	313.4	217.8	199.1	190.2	182.2	175.8	171.5	169.3
25°	1023.4	749.5	410.9	262.8	195.9	181.2	165.0	151.7	141.6	135.5	133.0
27.5°	1032.0	715.0	365.9	220.0	180.8	160.3	139.1	123.3	112.9	107.5	105.3
30°	1038.1	675.8	326.4	193.4	163.9	138.4	115.7	100.3	92.7	89.9	88.4
32.5°	1043.9	632.3	289.0	180.8	148.1	118.3	97.1	85.2	80.5	76.9	75.8
35°	1058.2	592.0	253.4	167.5	131.9	101.0	83.4	74.8	70.1	67.9	67.2
37.5°	1092.4	562.2	219.3	153.8	115.7	87.3	73.0	66.9	62.5	60.4	59.7
40°	1147.4	547.1	190.5	139.1	99.9	76.9	66.1	60.4	55.7	52.5	51.8
42.5°	1228.3	549.3	170.4	124.4	87.3	68.7	59.7	52.8	47.8	44.9	44.2
45°	1326.4	565.1	156.4	110.0	76.9	62.2	52.5	45.3	40.6	38.1	37.4
47.5°	1432.8	590.6	144.9	97.1	68.7	56.1	45.3	37.7	33.8	31.6	31.3
50°	1545.0	615.4	133.0	84.5	61.5	50.0	38.1	31.3	28.0	26.2	25.5
52.5°	1658.5	644.1	122.2	73.0	55.4	42.8	31.6	25.5	23.0	21.6	20.8
55°	1780.8	665.7	111.8	64.0	49.2	36.3	26.2	21.2	19.1	17.3	16.9
57.5°	1924.5	699.1	101.0	55.4	42.1	30.2	21.6	16.9	15.1	13.3	12.9
60°	2118.6	738.3	89.5	48.9	34.5	24.8	17.6	13.7	11.5	10.1	9.7
62.5°	2374.6	781.8	75.1	42.8	28.0	20.1	14.0	10.8	8.3	6.5	6.5
65°	2699.2	852.6	61.5	35.9	23.0	16.5	10.8	7.9	4.7	2.9	2.9
67.5°	2888.6	864.9	49.6	29.5	18.7	14.0	9.0	5.4	1.4	0.4	0.0
69°	2827.9	794.0	42.1	25.2	16.2	13.3	8.3	4.0	0.7	0.0	0.0
70°	2713.6	726.1	37.0	22.3	14.7	12.6	7.9	2.9	0.7	0.0	0.0
72.5°	2242.3	516.9	28.0	16.5	10.8	11.1	7.2	1.8	0.7	0.0	0.0
75°	1633.4	314.2	20.1	11.5	6.8	8.3	5.0	0.7	0.4	0.0	0.0
77.5°	908.7	148.1	12.6	6.5	4.3	5.0	2.5	0.0	0.0	0.0	0.0
80°	295.1	40.3	5.8	3.6	2.5	2.9	1.1	0.0	0.0	0.0	0.0
82.5°	54.6	11.5	3.2	1.8	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	11.9	4.7	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.4	0.4	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)