

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: P299995

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL3-7027-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3394.9 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
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: 25 FT

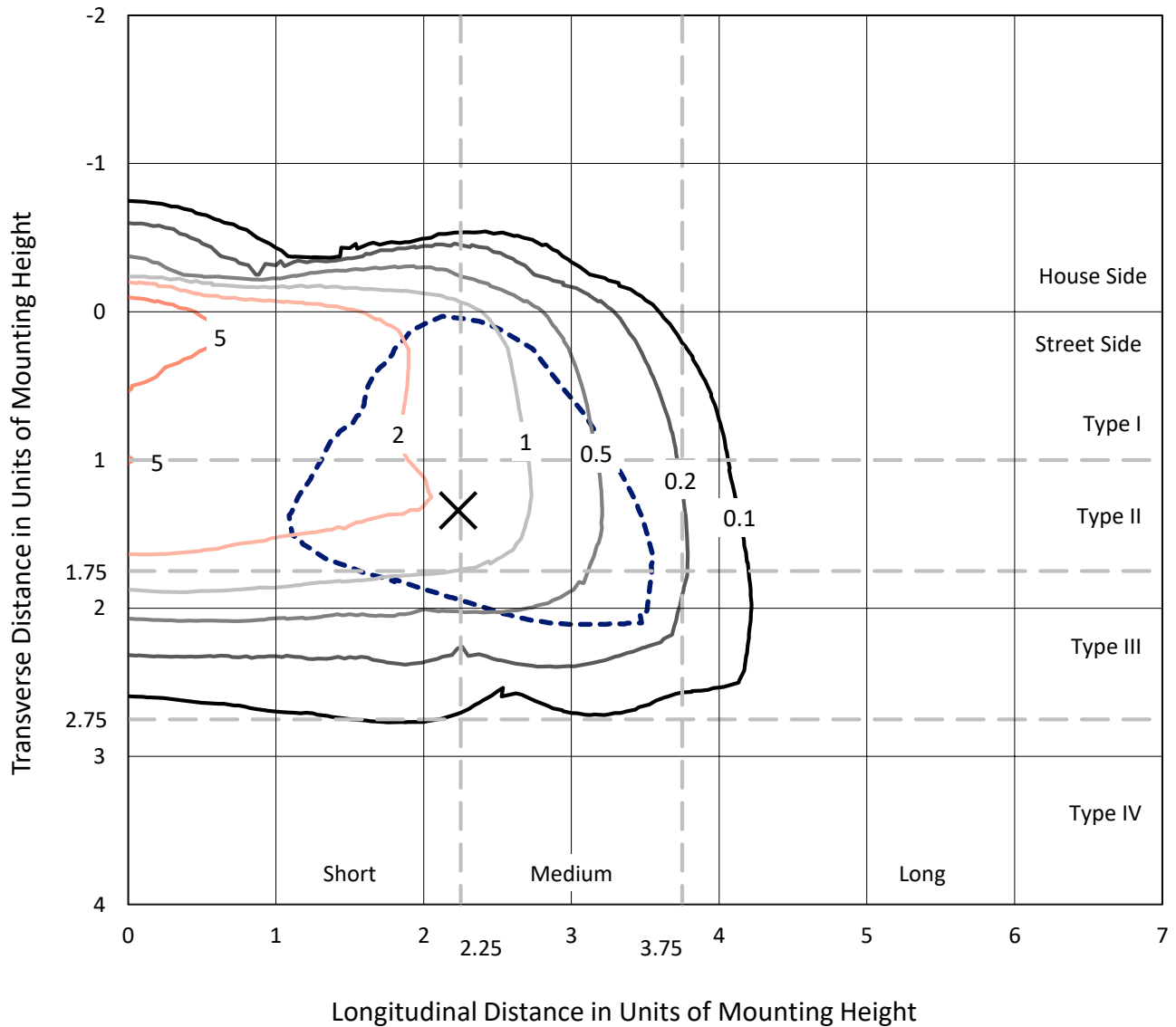


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

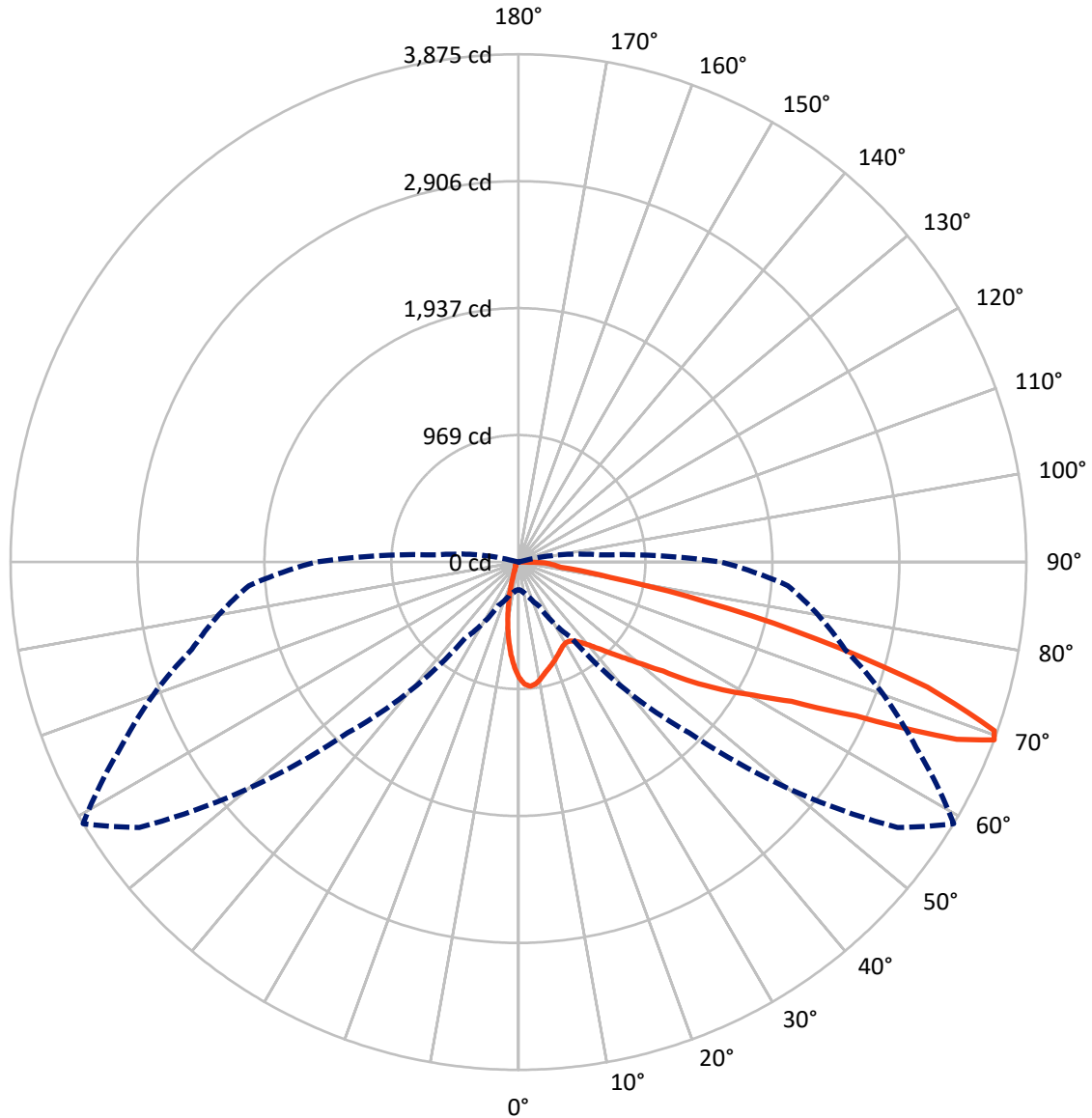


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	276.5	0.0	276.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3118.4	0.0	3118.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	3394.9	0.0	3394.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	2.1
10°-20°	148.2	4.4
20°-30°	199.4	5.9
30°-40°	289.6	8.5
40°-50°	482.1	14.2
50°-60°	752.1	22.2
60°-70°	930.7	27.4
70°-80°	471.7	13.9
80°-90°	49.4	1.5
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°	3394.9	100.0
0°-180°	3394.9	100.0



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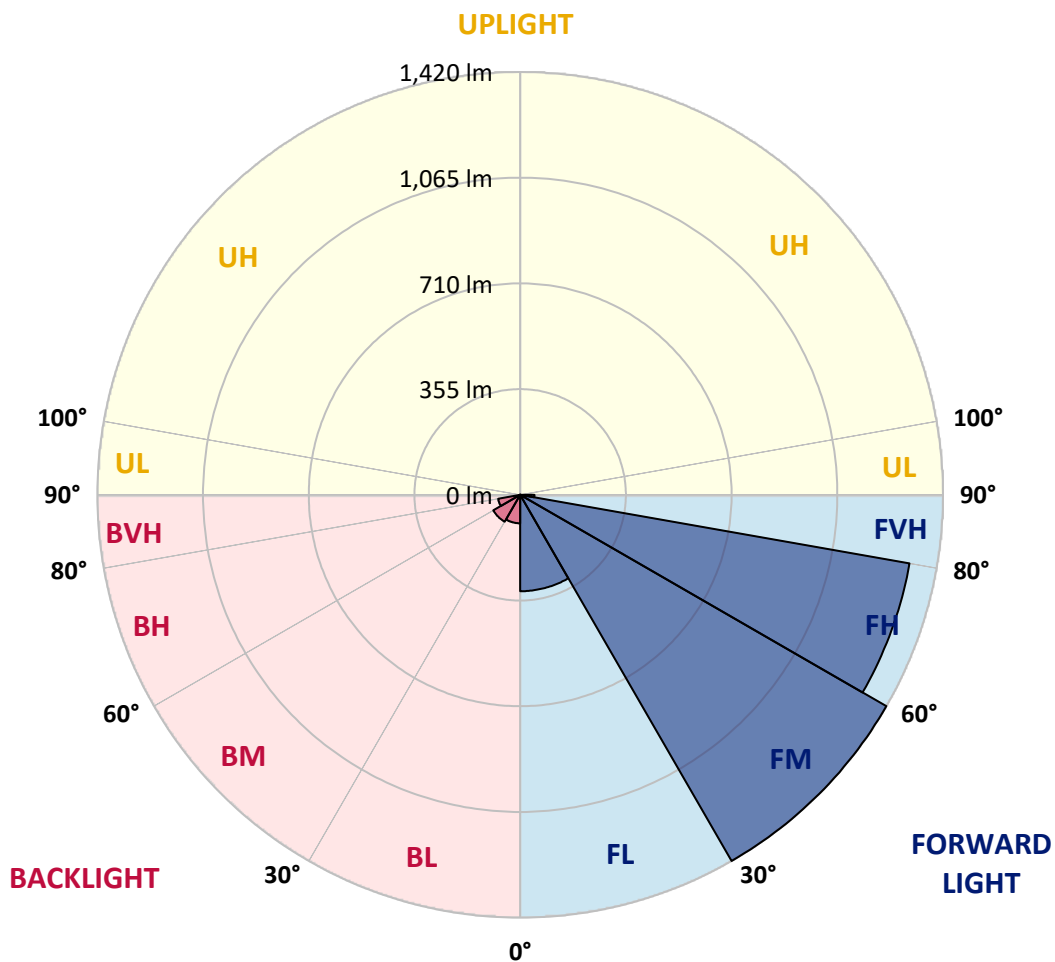
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.7	9.5			
FM (30°-60°)	1419.6	41.8			
FH (60°-80°)	1327.3	39.1			G1/1800
FVH (80°-90°)	47.8	1.4			G1/100
BL (0°-30°)	95.7	2.8	B0/110		
BM (30°-60°)	104.2	3.1	B0/220		
BH (60°-80°)	75.1	2.2	B0/110		G0/110
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: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
2.5°	968.5	968.1	963.9	962.0	958.5	951.2	939.9	934.0	924.4	907.6	885.2
5°	959.6	964.3	966.7	967.0	969.5	966.7	956.6	951.6	938.4	911.5	871.2
7.5°	899.8	901.5	908.6	914.7	926.6	938.0	941.6	939.5	931.6	902.9	849.3
10°	835.7	837.4	845.8	853.9	870.0	887.5	905.9	909.8	913.0	890.5	828.2
12.5°	780.3	782.1	790.7	801.3	820.1	841.6	870.2	876.5	890.9	878.9	811.3
15°	732.7	733.5	742.0	755.0	777.5	805.1	837.6	847.8	869.8	870.6	796.5
17.5°	692.2	694.1	699.4	711.8	736.4	770.6	808.4	823.0	848.9	863.7	782.1
20°	667.5	669.4	669.2	676.1	698.2	734.7	779.2	796.7	828.2	856.6	769.2
22.5°	662.7	662.7	657.7	656.7	669.8	700.3	748.9	770.2	809.5	853.5	760.2
25°	679.8	679.0	666.5	656.4	656.9	675.1	719.5	744.8	793.8	855.6	755.4
27.5°	715.9	714.9	699.1	679.8	664.2	664.0	697.2	724.5	781.3	865.6	757.3
30°	765.7	765.4	748.3	723.9	695.7	669.8	689.6	714.3	773.2	883.6	761.7
32.5°	820.3	819.7	806.8	781.1	745.4	695.7	697.6	718.4	775.6	907.6	772.5
35°	878.1	877.1	871.5	849.1	809.7	743.5	724.1	740.2	790.2	943.5	793.6
37.5°	940.6	941.6	945.6	924.1	882.9	810.5	768.5	779.4	819.5	992.3	827.9
40°	1033.0	1032.8	1034.2	1005.9	966.2	892.5	830.4	833.9	868.7	1057.0	880.2
42.5°	1200.6	1188.9	1153.4	1095.8	1055.8	986.1	908.6	904.9	928.8	1137.0	953.3
45°	1425.8	1400.8	1308.7	1198.3	1147.2	1091.7	1004.7	993.1	1008.2	1233.2	1043.6
47.5°	1619.4	1593.5	1463.2	1305.0	1244.1	1192.0	1117.4	1096.3	1101.3	1340.9	1157.9
50°	1685.3	1672.6	1558.8	1397.9	1338.0	1318.1	1248.2	1222.5	1215.4	1465.5	1290.6
52.5°	1662.4	1661.5	1585.7	1458.2	1424.0	1448.6	1412.7	1382.9	1356.8	1596.8	1425.5
55°	1625.8	1630.6	1596.6	1511.0	1509.8	1567.8	1637.7	1612.9	1537.3	1739.5	1541.9
57.5°	1524.6	1545.2	1590.5	1610.8	1658.0	1717.4	1825.1	1839.7	1750.2	1848.7	1638.4
60°	1237.1	1282.2	1430.4	1625.2	1849.1	1996.9	2051.2	2063.7	1924.9	1939.4	1768.8
62.5°	878.1	924.1	1112.1	1441.7	1851.9	2364.1	2388.1	2339.1	2117.2	2074.1	1993.6
65°	466.1	501.6	655.2	1040.7	1605.7	2449.3	2977.3	2831.4	2456.6	2338.7	2284.0
67.5°	238.4	249.2	310.3	509.3	1103.8	2175.6	3505.4	3608.1	3041.5	2601.4	2270.0
69°	211.0	217.3	257.8	368.2	706.8	1842.7	3531.1	3874.7	3347.8	2579.5	2062.9
70°	204.2	209.8	246.7	333.3	552.5	1545.3	3432.6	3851.3	3426.1	2496.2	1908.2
72.5°	173.4	178.1	219.6	294.5	449.0	767.1	2788.4	3263.5	3074.4	2079.4	1381.2
75°	116.0	131.7	210.8	276.1	417.7	435.8	1838.3	2358.3	2190.8	1402.5	719.5
77.5°	27.8	29.9	59.5	219.6	382.0	383.5	945.5	1466.1	1195.8	499.9	170.1
80°	15.0	14.4	16.7	43.6	355.7	359.9	425.6	711.6	427.0	82.9	56.0
82.5°	10.6	10.0	10.8	18.3	111.9	327.9	307.9	322.1	177.0	31.9	25.2
85°	3.8	3.7	5.9	16.5	35.1	188.5	316.4	265.7	143.4	14.6	18.4
87.5°	1.3	1.2	2.3	9.0	10.8	80.3	195.2	200.8	56.4	8.8	8.7
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°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
2.5°	875.8	863.9	842.0	819.5	798.8	773.8	761.3	749.1	743.9	742.0	733.0
5°	850.4	830.3	783.8	737.2	694.1	648.5	618.4	594.2	579.9	573.0	562.1
7.5°	818.0	785.0	714.5	642.5	575.5	509.5	460.6	422.9	397.0	384.5	373.2
10°	786.5	742.6	642.4	544.2	453.2	365.7	298.1	249.2	217.9	203.5	194.3
12.5°	758.3	701.3	572.7	448.5	334.2	231.7	163.0	124.0	104.6	97.9	94.6
15°	733.1	663.3	506.8	357.4	226.3	132.5	89.1	75.8	72.8	72.8	72.4
17.5°	709.3	626.0	443.2	272.0	142.0	81.0	67.8	66.0	66.0	66.8	66.8
20°	686.5	590.5	381.8	195.2	89.4	64.3	61.3	60.9	61.3	62.2	62.2
22.5°	666.9	558.3	324.4	134.0	66.4	57.9	56.4	55.9	56.0	56.6	57.0
25°	652.3	531.0	270.3	90.8	57.2	52.8	51.1	50.1	49.3	49.3	49.7
27.5°	643.1	508.0	217.9	66.0	51.4	48.0	45.3	43.8	42.0	41.1	41.4
30°	636.4	486.1	168.7	53.9	46.1	42.6	39.2	36.7	34.2	33.0	33.4
32.5°	633.9	468.4	126.1	47.6	41.3	37.4	33.2	29.9	27.3	26.3	26.5
35°	640.6	454.4	92.4	43.0	37.4	32.6	27.8	24.2	22.1	21.5	21.7
37.5°	658.3	446.9	69.1	39.2	34.0	28.6	23.2	19.8	18.4	18.4	18.6
40°	691.6	446.7	55.5	36.5	30.9	24.8	19.2	16.7	15.9	16.3	16.5
42.5°	740.4	456.9	48.4	34.0	28.2	21.1	15.9	14.2	14.0	14.4	14.6
45°	807.0	475.5	44.5	31.9	25.3	17.7	13.4	12.3	12.3	12.8	13.1
47.5°	888.6	502.7	41.3	29.8	22.4	14.8	11.5	10.8	10.9	11.5	11.7
50°	986.9	537.2	38.0	27.4	20.3	12.3	10.0	9.4	9.6	10.3	10.6
52.5°	1098.8	583.4	35.3	25.3	17.7	10.2	8.4	8.1	8.4	9.2	9.4
55°	1194.8	624.9	32.1	23.6	14.2	8.4	6.9	6.9	7.3	8.3	8.4
57.5°	1287.2	668.2	29.2	20.3	11.2	6.7	5.8	5.9	6.5	7.5	7.7
60°	1422.7	741.7	25.7	17.1	8.4	5.3	4.8	5.0	5.8	6.7	6.9
62.5°	1652.9	853.7	22.3	14.2	6.5	4.2	3.8	4.2	5.2	6.3	6.5
65°	1860.6	899.2	18.3	11.9	5.0	3.3	3.3	3.8	5.0	6.2	6.3
67.5°	1744.8	756.9	14.2	9.4	3.8	2.5	2.7	3.7	4.8	6.2	6.3
69°	1543.1	618.9	12.1	7.5	3.3	2.3	2.5	3.7	4.8	5.9	6.2
70°	1385.8	522.6	10.8	6.3	2.9	2.3	2.5	3.4	4.8	5.9	6.2
72.5°	928.2	282.2	8.7	4.6	2.7	2.1	2.1	3.4	4.6	5.8	5.9
75°	398.9	77.9	6.9	3.3	2.3	1.9	1.9	3.3	4.4	5.6	5.9
77.5°	72.9	19.8	5.6	2.9	2.3	1.9	1.7	3.1	4.2	5.3	5.6
80°	29.0	9.8	4.4	2.5	2.1	1.7	1.5	2.9	4.0	5.2	5.3
82.5°	17.5	5.6	3.7	2.3	2.1	1.5	1.3	2.5	3.8	5.0	5.2
85°	14.2	3.8	2.9	2.3	1.9	1.5	1.2	2.3	3.4	4.8	5.0
87.5°	6.9	2.7	2.7	2.1	1.9	1.5	1.2	2.1	3.3	4.6	4.8
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)