

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-SL3-7050-800-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-SL3-7050-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K 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: 3907.4 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - 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

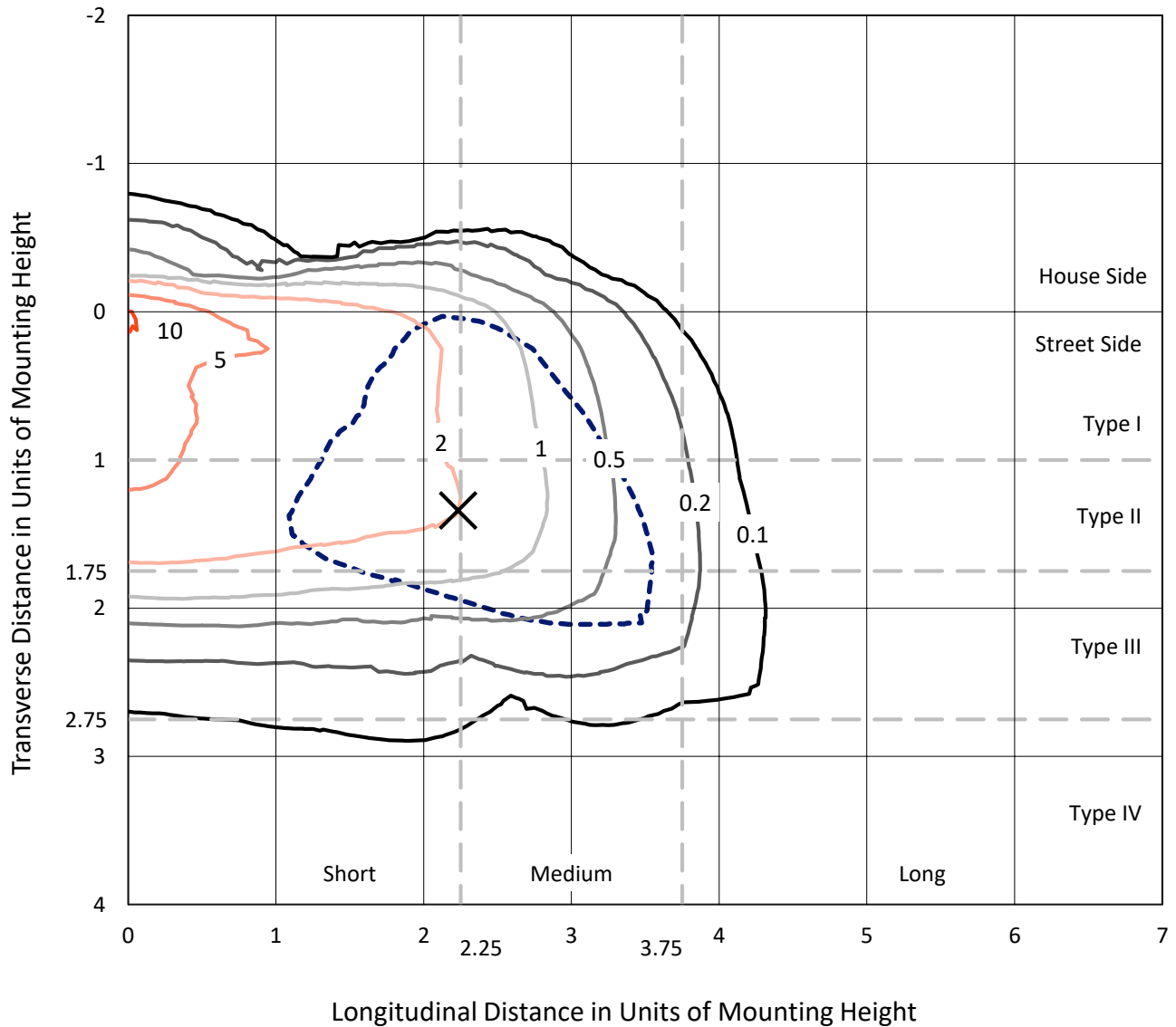


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

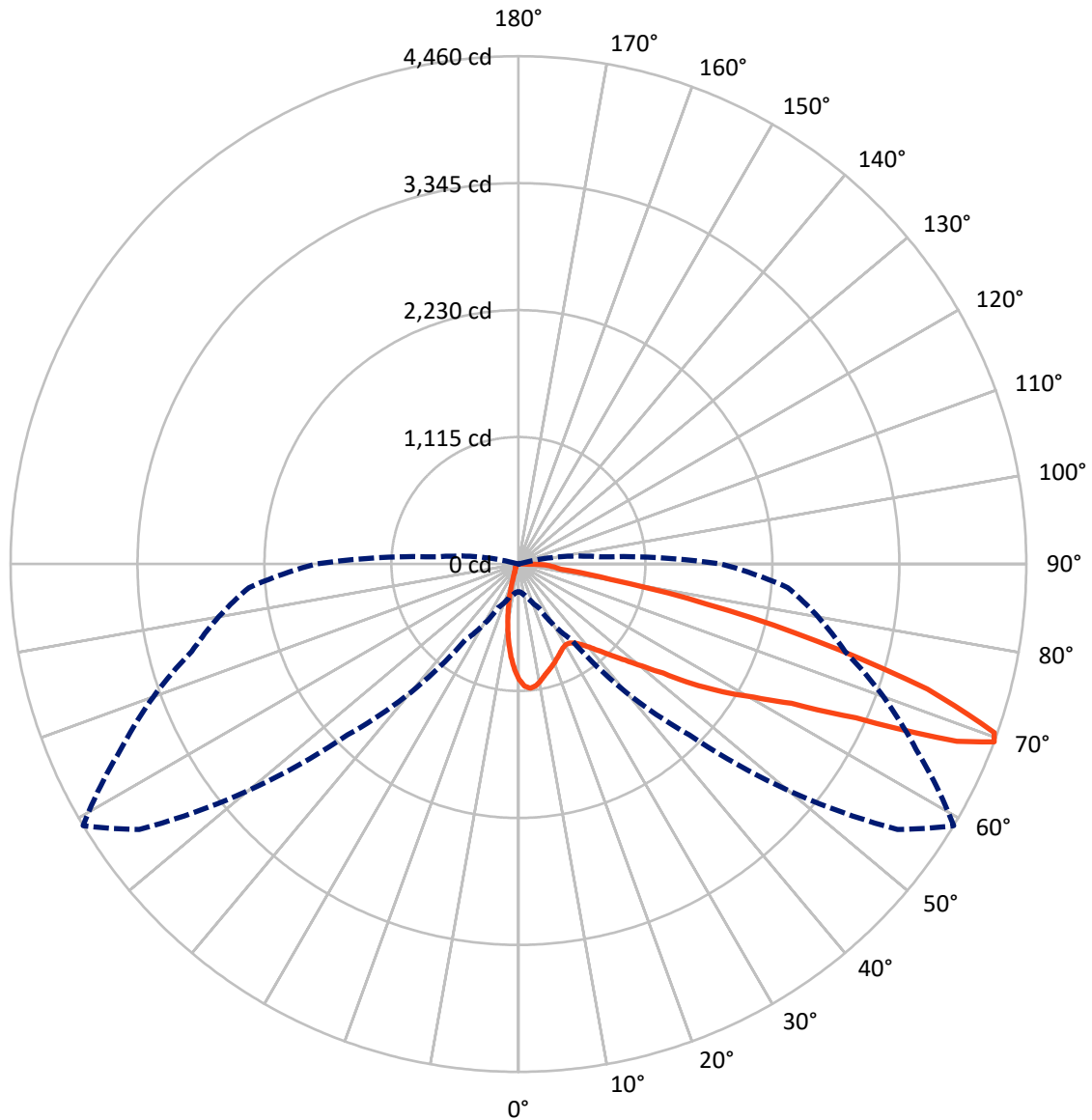


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - Non-Cutoff

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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	318.2	0.0	318.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3589.2	0.0	3589.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	3907.4	0.0	3907.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	2.1
10°-20°	170.6	4.4
20°-30°	229.5	5.9
30°-40°	333.3	8.5
40°-50°	554.9	14.2
50°-60°	865.7	22.2
60°-70°	1071.2	27.4
70°-80°	542.9	13.9
80°-90°	56.8	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°	3907.4	100.0
0°-180°	3907.4	100.0



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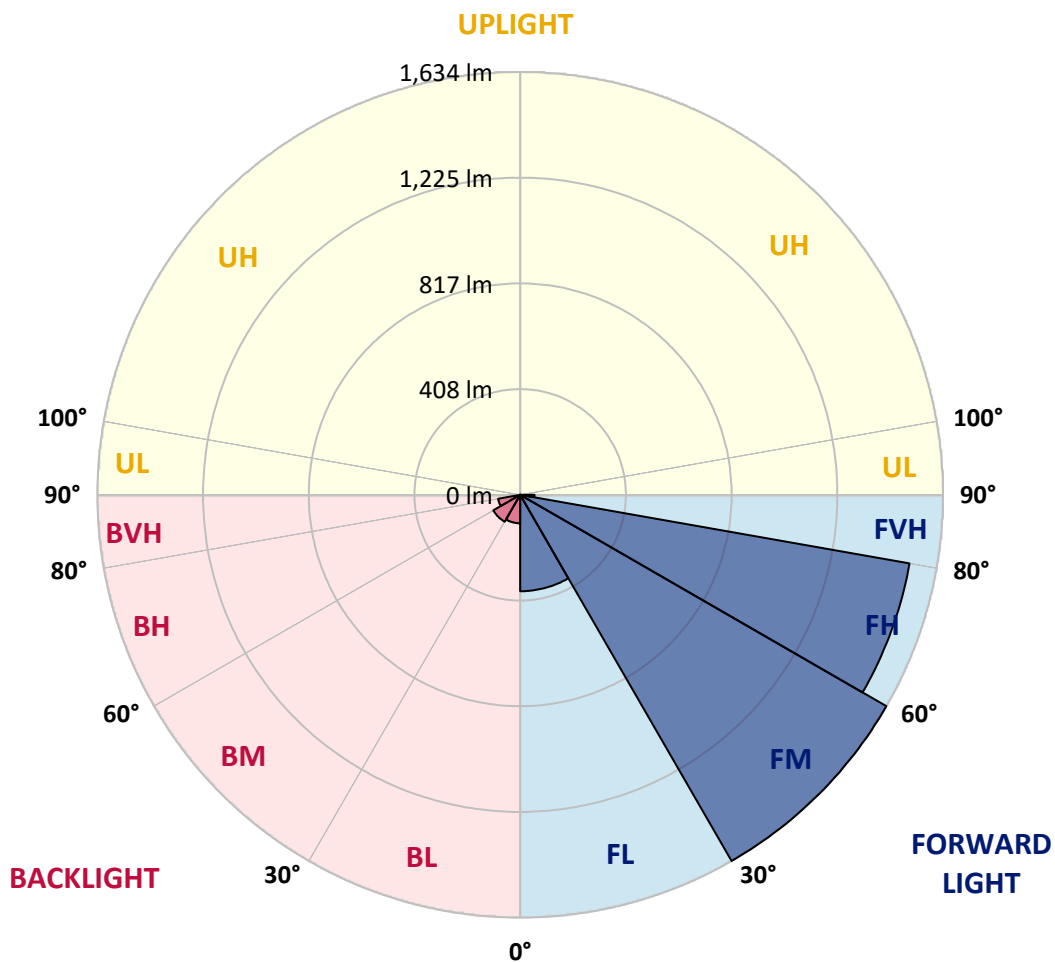
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.5	9.5			
FM	(30°-60°)	1633.9	41.8			
FH	(60°-80°)	1527.6	39.1			G1/1800
FVH	(80°-90°)	55.1	1.4			G1/100
BL	(0°-30°)	110.1	2.8	B1/500		
BM	(30°-60°)	119.9	3.1	B0/220		
BH	(60°-80°)	86.4	2.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0
2.5°	1114.7	1114.3	1109.4	1107.2	1103.2	1094.8	1081.8	1074.9	1063.9	1044.6	1018.8
5°	1104.5	1109.9	1112.7	1112.9	1115.8	1112.7	1101.0	1095.3	1080.0	1049.1	1002.7
7.5°	1035.6	1037.5	1045.8	1052.8	1066.5	1079.6	1083.8	1081.3	1072.3	1039.2	977.5
10°	961.8	963.8	973.5	982.8	1001.4	1021.4	1042.6	1047.1	1050.9	1025.0	953.2
12.5°	898.1	900.1	910.1	922.2	943.9	968.6	1001.6	1008.8	1025.4	1011.5	933.7
15°	843.3	844.2	854.0	869.0	894.9	926.6	964.0	975.7	1001.2	1002.0	916.7
17.5°	796.7	798.9	805.0	819.3	847.6	886.9	930.4	947.2	977.0	994.1	900.1
20°	768.2	770.4	770.2	778.2	803.6	845.6	896.9	916.9	953.2	985.9	885.4
22.5°	762.7	762.7	757.0	755.9	770.9	806.0	861.9	886.4	931.7	982.4	875.0
25°	782.4	781.5	767.2	755.4	756.1	777.1	828.1	857.3	913.7	984.8	869.4
27.5°	823.9	822.8	804.7	782.4	764.5	764.3	802.5	833.9	899.3	996.3	871.6
30°	881.3	880.9	861.3	833.2	800.7	770.9	793.6	822.1	890.0	1017.0	876.7
32.5°	944.1	943.4	928.6	899.1	857.9	800.7	802.9	826.8	892.7	1044.6	889.1
35°	1010.7	1009.5	1003.1	977.3	932.0	855.7	833.4	852.0	909.4	1086.0	913.4
37.5°	1082.6	1083.8	1088.4	1063.6	1016.1	932.9	884.5	897.1	943.2	1142.1	952.9
40°	1188.9	1188.7	1190.3	1157.8	1112.1	1027.2	955.8	959.8	999.8	1216.6	1013.1
42.5°	1381.8	1368.3	1327.5	1261.2	1215.2	1135.0	1045.8	1041.6	1069.0	1308.7	1097.2
45°	1641.0	1612.2	1506.2	1379.2	1320.4	1256.6	1156.4	1143.0	1160.4	1419.4	1201.1
47.5°	1863.9	1834.1	1684.1	1502.0	1432.0	1371.9	1286.1	1261.8	1267.6	1543.3	1332.8
50°	1939.7	1925.1	1794.1	1609.0	1540.0	1517.1	1436.6	1407.0	1398.8	1686.7	1485.4
52.5°	1913.4	1912.3	1825.0	1678.3	1639.0	1667.3	1626.0	1591.7	1561.7	1837.9	1640.7
55°	1871.2	1876.7	1837.6	1739.1	1737.7	1804.5	1884.9	1856.4	1769.4	2002.0	1774.7
57.5°	1754.8	1778.4	1830.6	1854.0	1908.3	1976.6	2100.6	2117.4	2014.4	2127.7	1885.8
60°	1423.8	1475.7	1646.3	1870.5	2128.2	2298.3	2360.9	2375.2	2215.4	2232.2	2035.8
62.5°	1010.7	1063.6	1280.0	1659.3	2131.5	2721.0	2748.6	2692.3	2436.9	2387.2	2294.6
65°	536.4	577.4	754.1	1197.8	1848.1	2819.1	3426.7	3258.8	2827.5	2691.8	2628.9
67.5°	274.4	286.8	357.1	586.2	1270.5	2504.0	4034.5	4152.7	3500.7	2994.1	2612.7
69°	242.8	250.1	296.7	423.8	813.5	2120.9	4064.2	4459.6	3853.2	2968.9	2374.3
70°	235.1	241.5	283.9	383.6	635.9	1778.6	3950.8	4432.7	3943.3	2873.0	2196.2
72.5°	199.5	205.0	252.8	339.0	516.8	882.9	3209.3	3756.2	3538.5	2393.3	1589.7
75°	133.5	151.6	242.6	317.8	480.8	501.6	2115.8	2714.3	2521.5	1614.3	828.1
77.5°	32.0	34.5	68.5	252.8	439.7	441.4	1088.2	1687.4	1376.3	575.4	195.7
80°	17.3	16.6	19.2	50.2	409.4	414.3	489.9	819.1	491.4	95.5	64.5
82.5°	12.2	11.5	12.4	21.0	128.8	377.4	354.4	370.7	203.7	36.7	29.0
85°	4.4	4.2	6.8	19.0	40.4	216.9	364.1	305.8	165.0	16.8	21.2
87.5°	1.5	1.3	2.7	10.4	12.4	92.4	224.7	231.1	65.0	10.2	10.0
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°	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0
2.5°	1008.0	994.3	969.1	943.2	919.3	890.6	876.3	862.1	856.2	854.0	843.6
5°	978.8	955.6	902.2	848.4	798.9	746.4	711.7	683.9	667.5	659.5	646.9
7.5°	941.5	903.5	822.3	739.5	662.4	586.4	530.1	486.7	456.9	442.6	429.5
10°	905.2	854.7	739.3	626.4	521.6	420.9	343.1	286.8	250.8	234.2	223.6
12.5°	872.8	807.2	659.1	516.2	384.6	266.7	187.6	142.8	120.4	112.7	108.9
15°	843.8	763.4	583.3	411.4	260.5	152.5	102.6	87.3	83.8	83.8	83.3
17.5°	816.4	720.5	510.1	313.1	163.5	93.3	78.0	76.0	76.0	76.9	76.9
20°	790.1	679.7	439.4	224.7	103.0	74.0	70.5	70.0	70.5	71.6	71.6
22.5°	767.6	642.5	373.4	154.2	76.5	66.7	65.0	64.3	64.5	65.2	65.6
25°	750.8	611.2	311.1	104.5	65.8	60.7	58.8	57.7	56.8	56.8	57.2
27.5°	740.2	584.7	250.8	76.0	59.2	55.3	52.1	50.4	48.4	47.3	47.7
30°	732.4	559.4	194.2	62.1	53.0	49.0	45.1	42.2	39.3	38.0	38.5
32.5°	729.6	539.1	145.2	54.8	47.5	43.1	38.2	34.5	31.4	30.2	30.5
35°	737.3	523.0	106.3	49.5	43.1	37.5	32.0	27.8	25.4	24.8	25.0
37.5°	757.7	514.4	79.5	45.1	39.1	32.9	26.8	22.7	21.2	21.2	21.4
40°	796.1	514.2	63.9	42.0	35.6	28.5	22.1	19.2	18.3	18.8	19.0
42.5°	852.2	525.9	55.7	39.1	32.5	24.3	18.3	16.3	16.1	16.6	16.8
45°	928.8	547.3	51.2	36.7	29.2	20.3	15.5	14.1	14.1	14.8	15.1
47.5°	1022.8	578.6	47.5	34.3	25.8	17.0	13.2	12.4	12.6	13.2	13.4
50°	1135.9	618.2	43.7	31.6	23.4	14.1	11.5	10.8	11.0	11.9	12.2
52.5°	1264.7	671.5	40.7	29.2	20.3	11.7	9.7	9.3	9.7	10.6	10.8
55°	1375.2	719.2	36.9	27.2	16.3	9.7	8.0	8.0	8.4	9.5	9.7
57.5°	1481.5	769.1	33.6	23.4	12.8	7.8	6.6	6.8	7.5	8.6	8.8
60°	1637.5	853.7	29.6	19.7	9.7	6.2	5.6	5.8	6.6	7.8	8.0
62.5°	1902.4	982.6	25.6	16.3	7.5	4.9	4.4	4.9	6.0	7.3	7.5
65°	2141.5	1034.9	21.0	13.7	5.8	3.7	3.7	4.4	5.8	7.1	7.3
67.5°	2008.2	871.2	16.3	10.8	4.4	2.9	3.1	4.2	5.6	7.1	7.3
69°	1776.0	712.4	13.9	8.6	3.7	2.7	2.9	4.2	5.6	6.8	7.1
70°	1595.1	601.5	12.4	7.3	3.3	2.7	2.9	3.9	5.6	6.8	7.1
72.5°	1068.3	324.8	10.0	5.3	3.1	2.4	2.4	3.9	5.3	6.6	6.8
75°	459.1	89.7	8.0	3.7	2.7	2.2	2.2	3.7	5.1	6.4	6.8
77.5°	84.0	22.7	6.4	3.3	2.7	2.2	2.0	3.5	4.9	6.2	6.4
80°	33.4	11.2	5.1	2.9	2.4	2.0	1.7	3.3	4.6	6.0	6.2
82.5°	20.1	6.4	4.2	2.7	2.4	1.7	1.5	2.9	4.4	5.8	6.0
85°	16.3	4.4	3.3	2.7	2.2	1.7	1.3	2.7	3.9	5.6	5.8
87.5°	8.0	3.1	3.1	2.4	2.2	1.7	1.3	2.4	3.7	5.3	5.6
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)