

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-SL3-7030-800-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-SL3-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 3779.5 lumens
Efficiency: N/A
Efficacy: 85.9 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

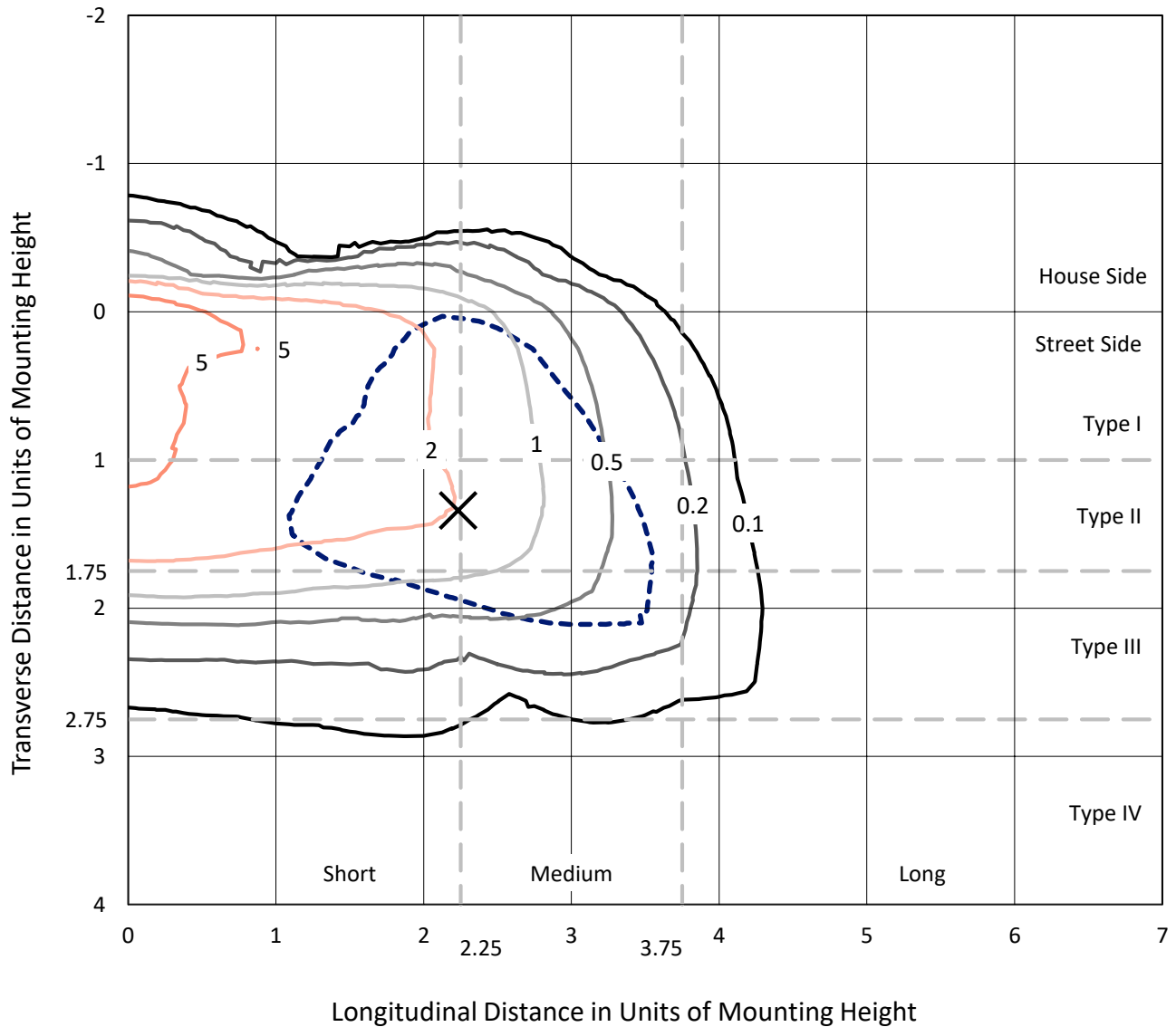


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

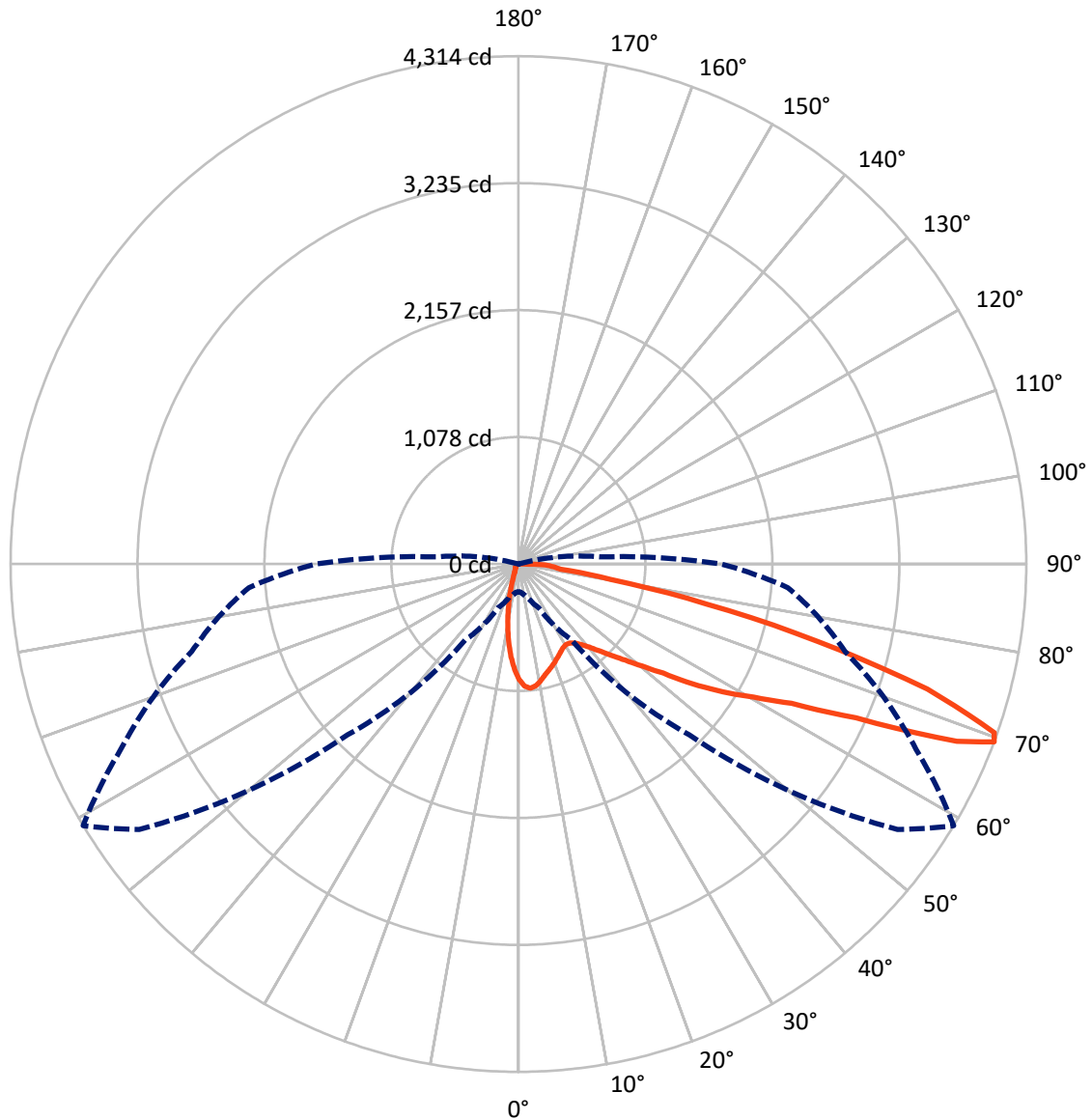


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Non-Cutoff

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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	307.8	0.0	307.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3471.7	0.0	3471.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	3779.5	0.0	3779.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	2.1
10°-20°	165.0	4.4
20°-30°	222.0	5.9
30°-40°	322.4	8.5
40°-50°	536.8	14.2
50°-60°	837.3	22.2
60°-70°	1036.1	27.4
70°-80°	525.1	13.9
80°-90°	54.9	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°	3779.5	100.0
0°-180°	3779.5	100.0



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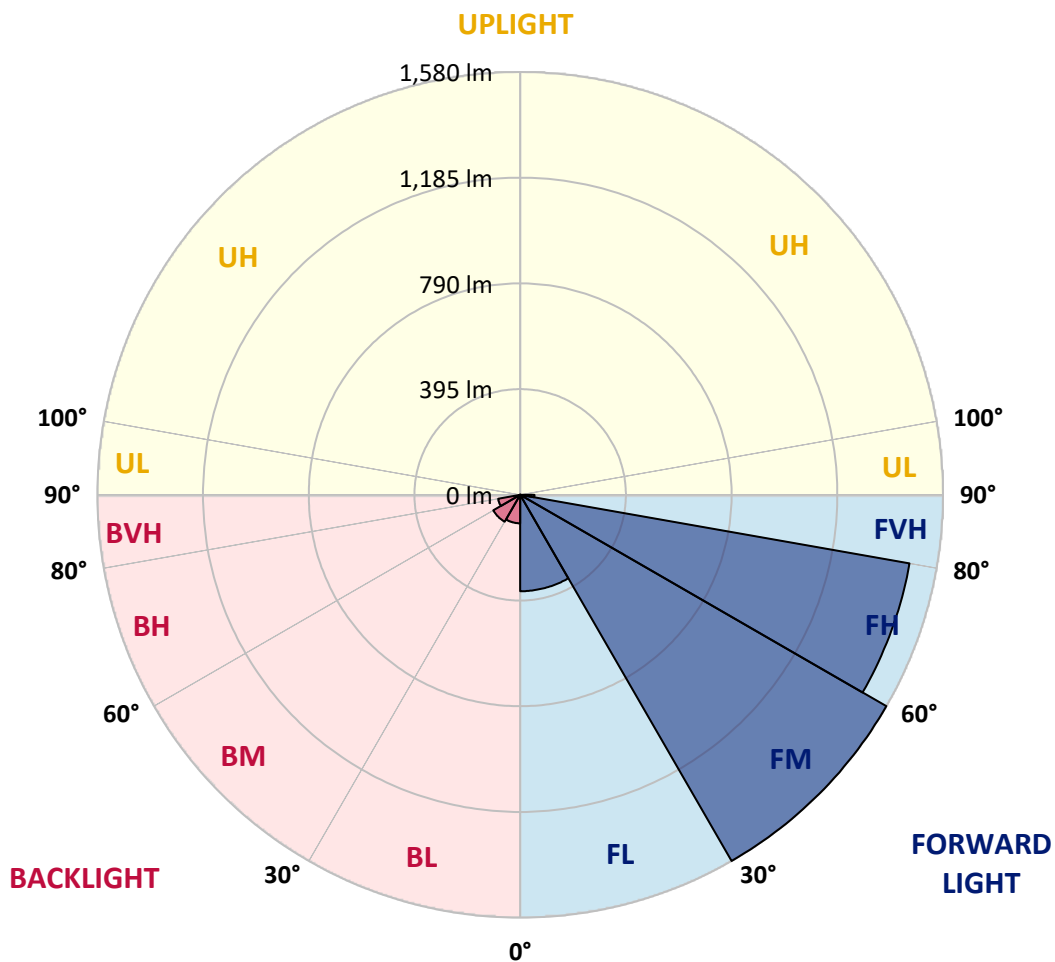
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.3	9.5			
FM	(30°-60°)	1580.5	41.8			
FH	(60°-80°)	1477.6	39.1			G1/1800
FVH	(80°-90°)	53.3	1.4			G1/100
BL	(0°-30°)	106.5	2.8	B0/110		
BM	(30°-60°)	116.0	3.1	B0/220		
BH	(60°-80°)	83.6	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: 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°	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7
2.5°	1078.2	1077.8	1073.1	1071.0	1067.1	1059.0	1046.4	1039.8	1029.1	1010.5	985.5
5°	1068.4	1073.5	1076.3	1076.5	1079.3	1076.3	1064.9	1059.4	1044.7	1014.7	969.9
7.5°	1001.7	1003.6	1011.6	1018.4	1031.6	1044.2	1048.3	1045.9	1037.2	1005.2	945.5
10°	930.3	932.2	941.7	950.6	968.6	988.0	1008.5	1012.9	1016.5	991.4	922.0
12.5°	868.7	870.7	880.3	892.0	913.0	936.9	968.8	975.8	991.9	978.4	903.2
15°	815.8	816.6	826.0	840.5	865.6	896.3	932.5	943.8	968.4	969.2	886.7
17.5°	770.7	772.8	778.6	792.5	819.8	857.9	900.0	916.2	945.0	961.5	870.7
20°	743.1	745.2	745.0	752.7	777.3	817.9	867.5	886.9	922.0	953.6	856.4
22.5°	737.8	737.8	732.2	731.1	745.7	779.6	833.7	857.4	901.2	950.2	846.4
25°	756.8	755.9	742.1	730.7	731.4	751.6	801.0	829.2	883.8	952.5	841.0
27.5°	797.0	795.9	778.4	756.8	739.5	739.3	776.2	806.6	869.8	963.7	843.1
30°	852.5	852.1	833.1	805.9	774.5	745.7	767.7	795.2	860.9	983.7	848.0
32.5°	913.2	912.6	898.3	869.7	829.9	774.5	776.7	799.8	863.4	1010.5	860.0
35°	977.6	976.5	970.3	945.3	901.5	827.7	806.2	824.1	879.7	1050.4	883.5
37.5°	1047.2	1048.3	1052.8	1028.8	982.9	902.3	855.5	867.7	912.4	1104.7	921.7
40°	1150.0	1149.8	1151.3	1119.9	1075.7	993.6	924.5	928.4	967.1	1176.8	979.9
42.5°	1336.6	1323.6	1284.0	1219.9	1175.5	1097.9	1011.6	1007.5	1034.0	1265.9	1061.3
45°	1587.3	1559.5	1456.9	1334.1	1277.2	1215.4	1118.6	1105.6	1122.5	1372.9	1161.8
47.5°	1802.9	1774.1	1629.0	1452.9	1385.1	1327.0	1244.0	1220.6	1226.1	1492.8	1289.1
50°	1876.2	1862.1	1735.4	1556.3	1489.6	1467.4	1389.6	1361.0	1353.1	1631.5	1436.8
52.5°	1850.8	1849.8	1765.3	1623.4	1585.4	1612.7	1572.8	1539.6	1510.6	1777.7	1587.1
55°	1810.0	1815.3	1777.5	1682.2	1680.9	1745.5	1823.2	1795.7	1711.5	1936.5	1716.6
57.5°	1697.4	1720.2	1770.7	1793.3	1845.9	1911.9	2031.8	2048.1	1948.5	2058.1	1824.1
60°	1377.2	1427.4	1592.4	1809.3	2058.6	2223.1	2283.6	2297.5	2142.9	2159.2	1969.2
62.5°	977.6	1028.8	1238.1	1605.0	2061.7	2631.9	2658.7	2604.2	2357.1	2309.1	2219.5
65°	518.9	558.5	729.4	1158.6	1787.6	2726.9	3314.6	3152.2	2734.9	2603.7	2542.8
67.5°	265.4	277.4	345.4	567.0	1228.9	2422.1	3902.5	4016.8	3386.2	2896.1	2527.2
69°	234.9	241.9	287.0	409.9	786.9	2051.5	3931.2	4313.7	3727.1	2871.7	2296.6
70°	227.4	233.6	274.6	371.0	615.1	1720.4	3821.5	4287.6	3814.3	2779.0	2124.4
72.5°	193.0	198.3	244.5	327.9	499.9	854.0	3104.3	3633.3	3422.7	2315.0	1537.7
75°	129.1	146.6	234.7	307.4	465.0	485.2	2046.6	2625.5	2439.0	1561.4	801.0
77.5°	31.0	33.3	66.3	244.5	425.3	427.0	1052.6	1632.2	1331.3	556.5	189.3
80°	16.7	16.0	18.6	48.5	396.0	400.7	473.8	792.3	475.3	92.3	62.4
82.5°	11.8	11.1	12.0	20.3	124.6	365.0	342.8	358.6	197.0	35.5	28.0
85°	4.3	4.1	6.6	18.4	39.1	209.8	352.2	295.8	159.6	16.2	20.5
87.5°	1.5	1.3	2.6	10.0	12.0	89.4	217.3	223.6	62.8	9.8	9.6
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°	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7
2.5°	975.0	961.7	937.4	912.4	889.3	861.5	847.6	833.9	828.2	826.0	816.0
5°	946.8	924.3	872.6	820.7	772.8	721.9	688.4	661.5	645.6	637.9	625.8
7.5°	910.7	873.9	795.4	715.3	640.7	567.2	512.7	470.8	441.9	428.1	415.5
10°	875.6	826.7	715.1	605.9	504.6	407.1	331.9	277.4	242.6	226.5	216.3
12.5°	844.2	780.7	637.6	499.3	372.1	258.0	181.4	138.1	116.5	109.0	105.3
15°	816.2	738.4	564.2	397.9	252.0	147.5	99.2	84.4	81.0	81.0	80.6
17.5°	789.7	697.0	493.5	302.8	158.1	90.2	75.4	73.5	73.5	74.3	74.3
20°	764.2	657.4	425.1	217.3	99.6	71.6	68.2	67.7	68.2	69.2	69.2
22.5°	742.4	621.5	361.2	149.1	74.0	64.5	62.8	62.2	62.4	63.0	63.5
25°	726.2	591.2	300.9	101.1	63.7	58.8	56.9	55.8	54.9	54.9	55.3
27.5°	716.0	565.5	242.6	73.5	57.3	53.4	50.4	48.7	46.8	45.7	46.1
30°	708.5	541.1	187.8	60.0	51.3	47.4	43.6	40.8	38.0	36.8	37.2
32.5°	705.7	521.5	140.4	53.0	45.9	41.7	36.9	33.3	30.3	29.2	29.5
35°	713.2	505.9	102.8	47.9	41.7	36.3	31.0	26.9	24.6	23.9	24.1
37.5°	732.9	497.5	76.9	43.6	37.9	31.8	25.9	22.0	20.5	20.5	20.7
40°	770.0	497.3	61.8	40.6	34.4	27.6	21.4	18.6	17.7	18.2	18.4
42.5°	824.3	508.7	53.8	37.9	31.4	23.5	17.7	15.8	15.6	16.0	16.2
45°	898.4	529.4	49.6	35.5	28.2	19.7	14.9	13.7	13.7	14.3	14.6
47.5°	989.3	559.7	45.9	33.1	25.0	16.4	12.8	12.0	12.2	12.8	13.0
50°	1098.7	598.0	42.3	30.5	22.6	13.7	11.1	10.5	10.7	11.5	11.8
52.5°	1223.3	649.5	39.3	28.2	19.7	11.3	9.4	9.0	9.4	10.3	10.5
55°	1330.2	695.7	35.7	26.3	15.8	9.4	7.7	7.7	8.2	9.2	9.4
57.5°	1433.0	743.9	32.5	22.6	12.4	7.5	6.4	6.6	7.2	8.3	8.5
60°	1583.9	825.8	28.7	19.0	9.4	6.0	5.4	5.6	6.4	7.5	7.7
62.5°	1840.1	950.4	24.8	15.8	7.2	4.7	4.3	4.7	5.8	7.1	7.2
65°	2071.4	1001.1	20.3	13.3	5.6	3.6	3.6	4.3	5.6	6.9	7.1
67.5°	1942.5	842.7	15.8	10.5	4.3	2.8	3.0	4.1	5.4	6.9	7.1
69°	1717.9	689.1	13.5	8.3	3.6	2.6	2.8	4.1	5.4	6.6	6.9
70°	1542.9	581.8	12.0	7.1	3.2	2.6	2.8	3.8	5.4	6.6	6.9
72.5°	1033.4	314.1	9.6	5.1	3.0	2.3	2.3	3.8	5.1	6.4	6.6
75°	444.1	86.8	7.7	3.6	2.6	2.1	2.1	3.6	4.9	6.2	6.6
77.5°	81.2	22.0	6.2	3.2	2.6	2.1	1.9	3.4	4.7	6.0	6.2
80°	32.3	10.9	4.9	2.8	2.3	1.9	1.7	3.2	4.5	5.8	6.0
82.5°	19.5	6.2	4.1	2.6	2.3	1.7	1.5	2.8	4.3	5.6	5.8
85°	15.8	4.3	3.2	2.6	2.1	1.7	1.3	2.6	3.8	5.4	5.6
87.5°	7.7	3.0	3.0	2.3	2.1	1.7	1.3	2.3	3.6	5.1	5.4
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)