

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-SL3-600-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-SL3-600-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K CCT 600mA 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: 3186.1 lumens  
Efficiency: N/A  
Efficacy: 93.7 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): 34  
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

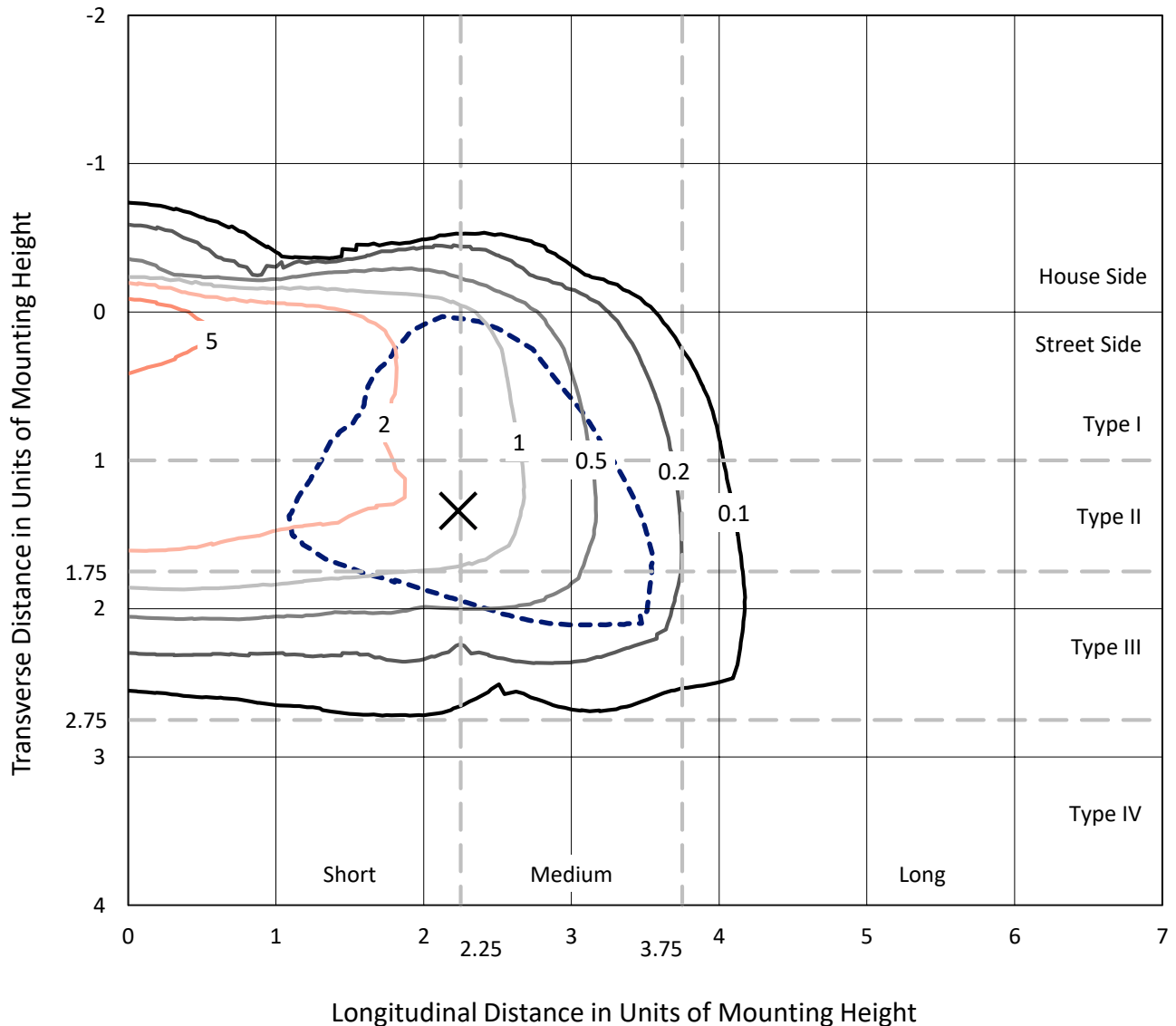


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

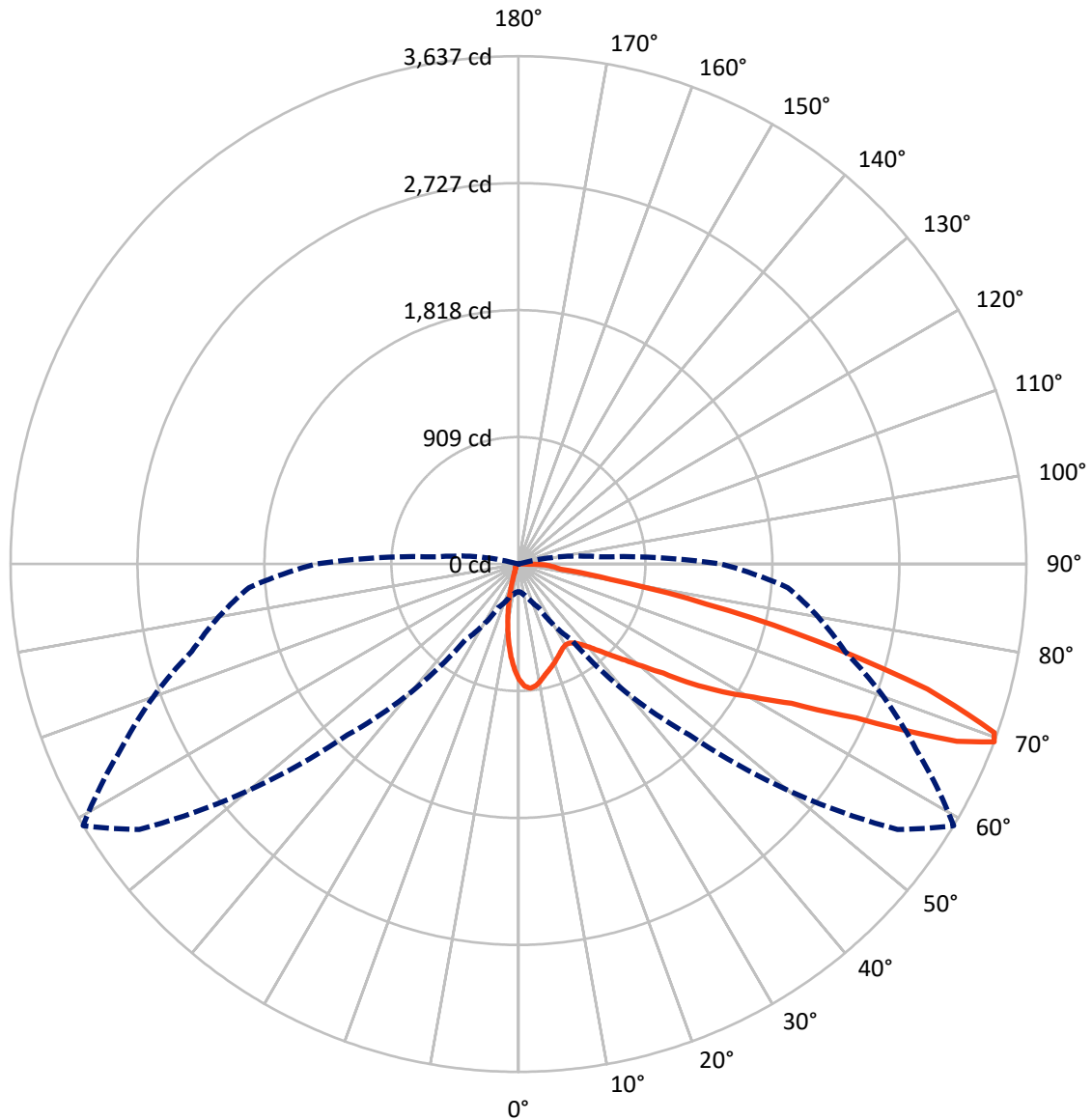


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	259.5	0.0	259.5
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	2926.7	0.0	2926.7
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	3186.1	0.0	3186.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.3	2.1
10°-20°	139.1	4.4
20°-30°	187.2	5.9
30°-40°	271.8	8.5
40°-50°	452.5	14.2
50°-60°	705.9	22.2
60°-70°	873.5	27.4
70°-80°	442.7	13.9
80°-90°	46.3	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°	3186.1	100.0
0°-180°	3186.1	100.0



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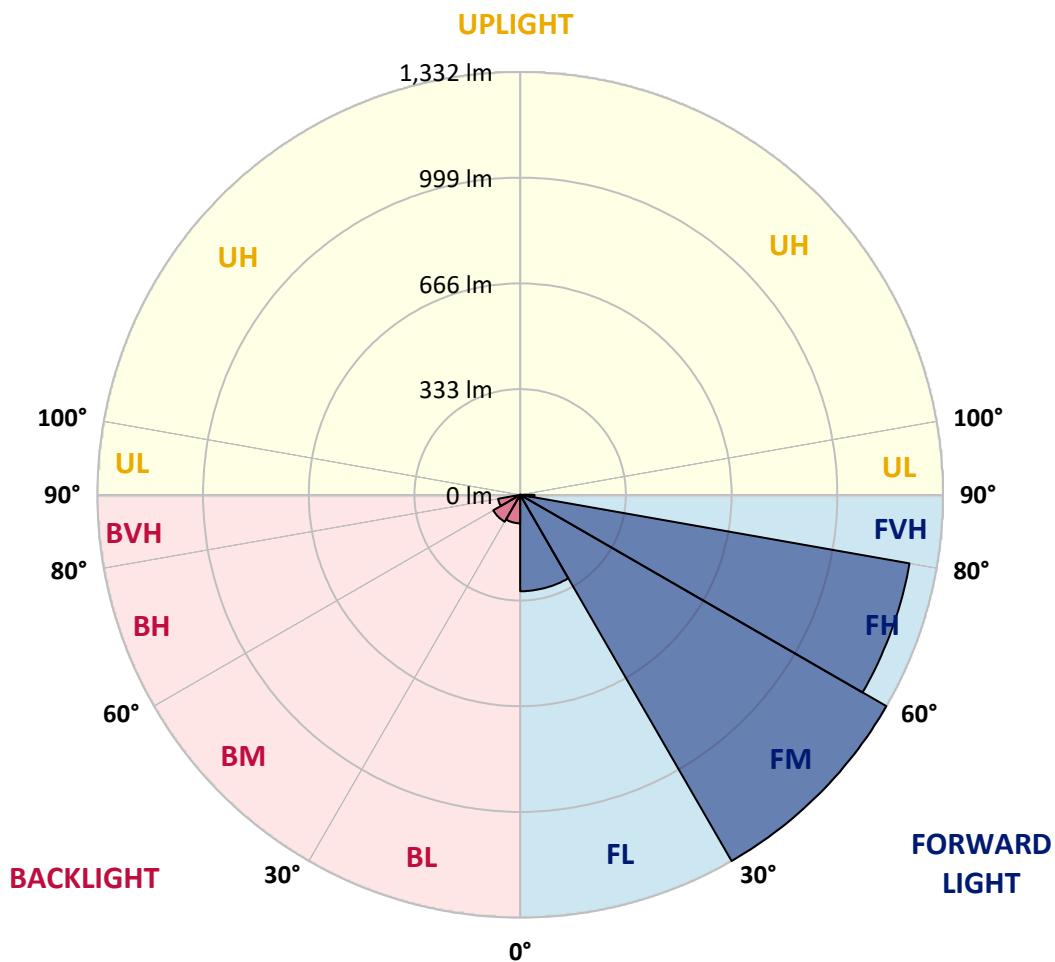
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.8	9.5			
FM	(30°-60°)	1332.4	41.8			
FH	(60°-80°)	1245.7	39.1			G1/1800
FVH	(80°-90°)	44.9	1.4			G1/100
BL	(0°-30°)	89.8	2.8	B0/110		
BM	(30°-60°)	97.8	3.1	B0/220		
BH	(60°-80°)	70.5	2.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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°	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3
2.5°	908.9	908.6	904.6	902.8	899.5	892.7	882.1	876.5	867.5	851.8	830.8
5°	900.6	905.0	907.3	907.5	909.9	907.3	897.7	893.1	880.7	855.4	817.6
7.5°	844.5	846.0	852.7	858.5	869.7	880.3	883.7	881.7	874.3	847.3	797.1
10°	784.3	785.9	793.8	801.4	816.5	832.9	850.2	853.8	856.9	835.8	777.3
12.5°	732.4	734.0	742.1	752.0	769.7	789.9	816.7	822.6	836.2	824.8	761.4
15°	687.7	688.4	696.4	708.6	729.7	755.6	786.1	795.6	816.4	817.1	747.5
17.5°	649.7	651.5	656.4	668.0	691.1	723.2	758.7	772.4	796.7	810.6	734.0
20°	626.4	628.2	628.1	634.6	655.3	689.5	731.3	747.7	777.3	803.9	721.9
22.5°	622.0	622.0	617.3	616.3	628.6	657.2	702.8	722.8	759.7	801.0	713.5
25°	638.0	637.2	625.6	616.0	616.6	633.6	675.2	699.0	745.0	803.0	709.0
27.5°	671.9	670.9	656.2	638.0	623.4	623.2	654.4	679.9	733.3	812.4	710.8
30°	718.7	718.3	702.3	679.4	652.9	628.6	647.2	670.4	725.7	829.3	714.9
32.5°	769.8	769.3	757.2	733.1	699.6	652.9	654.7	674.2	727.9	851.8	725.0
35°	824.1	823.2	817.9	796.9	760.0	697.8	679.6	694.7	741.6	885.5	744.8
37.5°	882.8	883.7	887.5	867.3	828.6	760.7	721.2	731.5	769.1	931.3	777.0
40°	969.5	969.3	970.6	944.1	906.8	837.6	779.4	782.7	815.3	992.0	826.1
42.5°	1126.7	1115.8	1082.4	1028.4	990.9	925.5	852.7	849.3	871.7	1067.1	894.7
45°	1338.1	1314.7	1228.2	1124.6	1076.7	1024.6	943.0	932.0	946.2	1157.4	979.4
47.5°	1519.9	1495.5	1373.2	1224.8	1167.7	1118.7	1048.7	1028.9	1033.6	1258.5	1086.8
50°	1581.7	1569.8	1463.0	1312.0	1255.7	1237.0	1171.5	1147.3	1140.7	1375.4	1211.2
52.5°	1560.2	1559.4	1488.2	1368.6	1336.5	1359.6	1325.8	1297.9	1273.4	1498.6	1337.9
55°	1525.8	1530.3	1498.4	1418.1	1417.0	1471.4	1537.0	1513.8	1442.8	1632.5	1447.1
57.5°	1430.9	1450.2	1492.7	1511.8	1556.1	1611.8	1712.9	1726.6	1642.6	1735.0	1537.7
60°	1161.0	1203.3	1342.4	1525.3	1735.4	1874.1	1925.1	1936.8	1806.5	1820.2	1660.1
62.5°	824.1	867.3	1043.7	1353.1	1738.1	2218.7	2241.3	2195.3	1987.1	1946.5	1871.0
65°	437.4	470.8	614.9	976.7	1506.9	2298.8	2794.2	2657.3	2305.6	2195.0	2143.6
67.5°	223.8	233.8	291.2	478.0	1036.0	2041.8	3289.8	3386.2	2854.5	2441.5	2130.5
69°	198.0	204.0	242.0	345.6	663.4	1729.4	3314.0	3636.5	3142.0	2420.9	1936.1
70°	191.7	196.9	231.5	312.8	518.5	1450.3	3221.5	3614.5	3215.4	2342.7	1790.9
72.5°	162.7	167.2	206.1	276.4	421.4	719.9	2616.9	3062.9	2885.4	1951.6	1296.3
75°	108.8	123.6	197.8	259.1	392.0	409.0	1725.3	2213.3	2056.1	1316.3	675.2
77.5°	26.1	28.1	55.9	206.1	358.5	360.0	887.3	1375.9	1122.3	469.2	159.6
80°	14.1	13.5	15.7	40.9	333.8	337.8	399.5	667.9	400.7	77.8	52.6
82.5°	9.9	9.4	10.1	17.1	105.1	307.7	289.0	302.3	166.1	29.9	23.6
85°	3.6	3.4	5.6	15.5	32.9	176.9	296.9	249.3	134.6	13.7	17.3
87.5°	1.3	1.1	2.2	8.5	10.1	75.3	183.2	188.5	53.0	8.3	8.1
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°	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3
2.5°	821.9	810.7	790.2	769.1	749.7	726.3	714.5	703.0	698.2	696.4	687.9
5°	798.1	779.2	735.6	691.8	651.5	608.6	580.3	557.6	544.3	537.8	527.5
7.5°	767.7	736.7	670.6	603.0	540.1	478.2	432.2	396.9	372.6	360.9	350.3
10°	738.1	696.9	602.9	510.8	425.4	343.2	279.8	233.8	204.5	191.0	182.4
12.5°	711.7	658.2	537.5	420.9	313.7	217.5	153.0	116.4	98.2	91.9	88.8
15°	688.1	622.5	475.7	335.5	212.4	124.3	83.6	71.2	68.3	68.3	67.9
17.5°	665.7	587.5	416.0	255.3	133.3	76.0	63.6	62.0	62.0	62.7	62.7
20°	644.3	554.2	358.3	183.2	83.9	60.3	57.5	57.1	57.5	58.4	58.4
22.5°	625.9	523.9	304.5	125.7	62.3	54.4	53.0	52.4	52.6	53.1	53.5
25°	612.2	498.3	253.7	85.2	53.7	49.5	47.9	47.0	46.3	46.3	46.6
27.5°	603.6	476.7	204.5	62.0	48.3	45.1	42.5	41.1	39.4	38.6	38.9
30°	597.2	456.2	158.4	50.6	43.3	40.0	36.8	34.4	32.1	31.0	31.4
32.5°	594.9	439.6	118.4	44.7	38.7	35.1	31.1	28.1	25.6	24.7	24.9
35°	601.2	426.5	86.7	40.4	35.1	30.6	26.1	22.7	20.7	20.2	20.3
37.5°	617.8	419.4	64.9	36.8	31.9	26.8	21.8	18.5	17.3	17.3	17.5
40°	649.1	419.3	52.1	34.3	29.0	23.2	18.0	15.7	14.9	15.3	15.5
42.5°	694.9	428.8	45.4	31.9	26.5	19.8	14.9	13.3	13.1	13.5	13.7
45°	757.4	446.3	41.8	29.9	23.8	16.6	12.6	11.5	11.5	12.1	12.3
47.5°	834.0	471.8	38.7	27.9	21.1	13.9	10.8	10.1	10.3	10.8	11.0
50°	926.2	504.1	35.7	25.7	19.1	11.5	9.4	8.8	9.0	9.7	9.9
52.5°	1031.3	547.6	33.2	23.8	16.6	9.5	7.9	7.6	7.9	8.7	8.8
55°	1121.3	586.4	30.1	22.1	13.3	7.9	6.5	6.5	6.9	7.7	7.9
57.5°	1208.0	627.1	27.4	19.1	10.5	6.3	5.4	5.6	6.1	7.0	7.2
60°	1335.2	696.1	24.2	16.0	7.9	5.0	4.5	4.7	5.4	6.3	6.5
62.5°	1551.2	801.2	20.9	13.3	6.1	4.0	3.6	4.0	4.9	5.9	6.1
65°	1746.2	843.9	17.1	11.2	4.7	3.1	3.1	3.6	4.7	5.8	5.9
67.5°	1637.5	710.4	13.3	8.8	3.6	2.3	2.5	3.4	4.5	5.8	5.9
69°	1448.2	580.9	11.3	7.0	3.1	2.2	2.3	3.4	4.5	5.6	5.8
70°	1300.6	490.4	10.1	5.9	2.7	2.2	2.3	3.2	4.5	5.6	5.8
72.5°	871.1	264.8	8.1	4.3	2.5	2.0	2.0	3.2	4.3	5.4	5.6
75°	374.4	73.1	6.5	3.1	2.2	1.8	1.8	3.1	4.1	5.2	5.6
77.5°	68.5	18.5	5.2	2.7	2.2	1.8	1.6	2.9	4.0	5.0	5.2
80°	27.2	9.2	4.1	2.3	2.0	1.6	1.4	2.7	3.8	4.9	5.0
82.5°	16.4	5.2	3.4	2.2	2.0	1.4	1.3	2.3	3.6	4.7	4.9
85°	13.3	3.6	2.7	2.2	1.8	1.4	1.1	2.2	3.2	4.5	4.7
87.5°	6.5	2.5	2.5	2.0	1.8	1.4	1.1	2.0	3.1	4.3	4.5
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)