

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: P300843

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5901.4 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

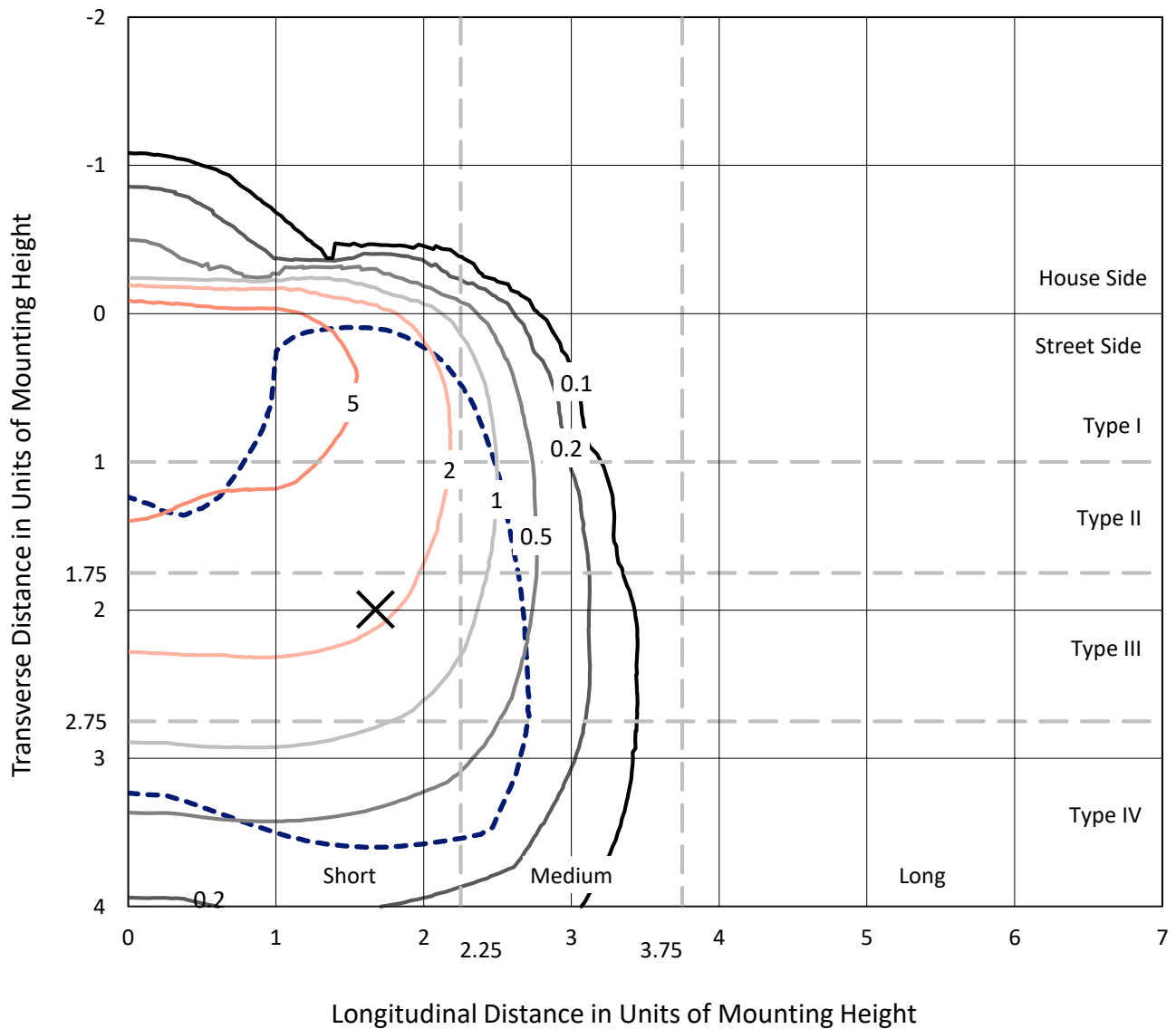


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

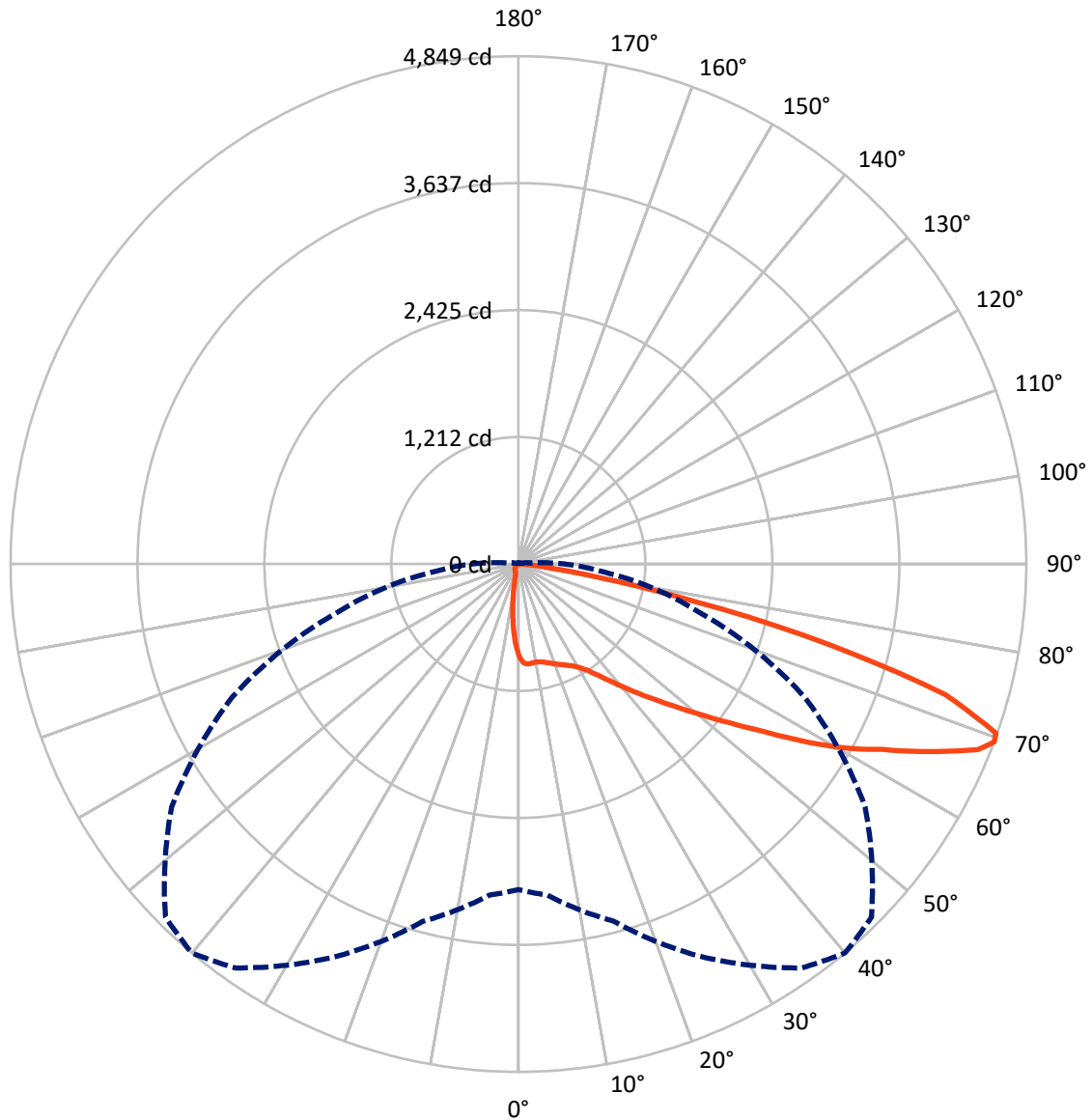


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	345.3	0.0	345.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5556.1	0.0	5556.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	5901.4	0.0	5901.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	1.2
10°-20°	175.8	3.0
20°-30°	296.1	5.0
30°-40°	484.7	8.2
40°-50°	839.3	14.2
50°-60°	1322.0	22.4
60°-70°	1726.5	29.3
70°-80°	889.2	15.1
80°-90°	96.2	1.6
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°	5901.4	100.0
0°-180°	5901.4	100.0

Coefficient of Utilization



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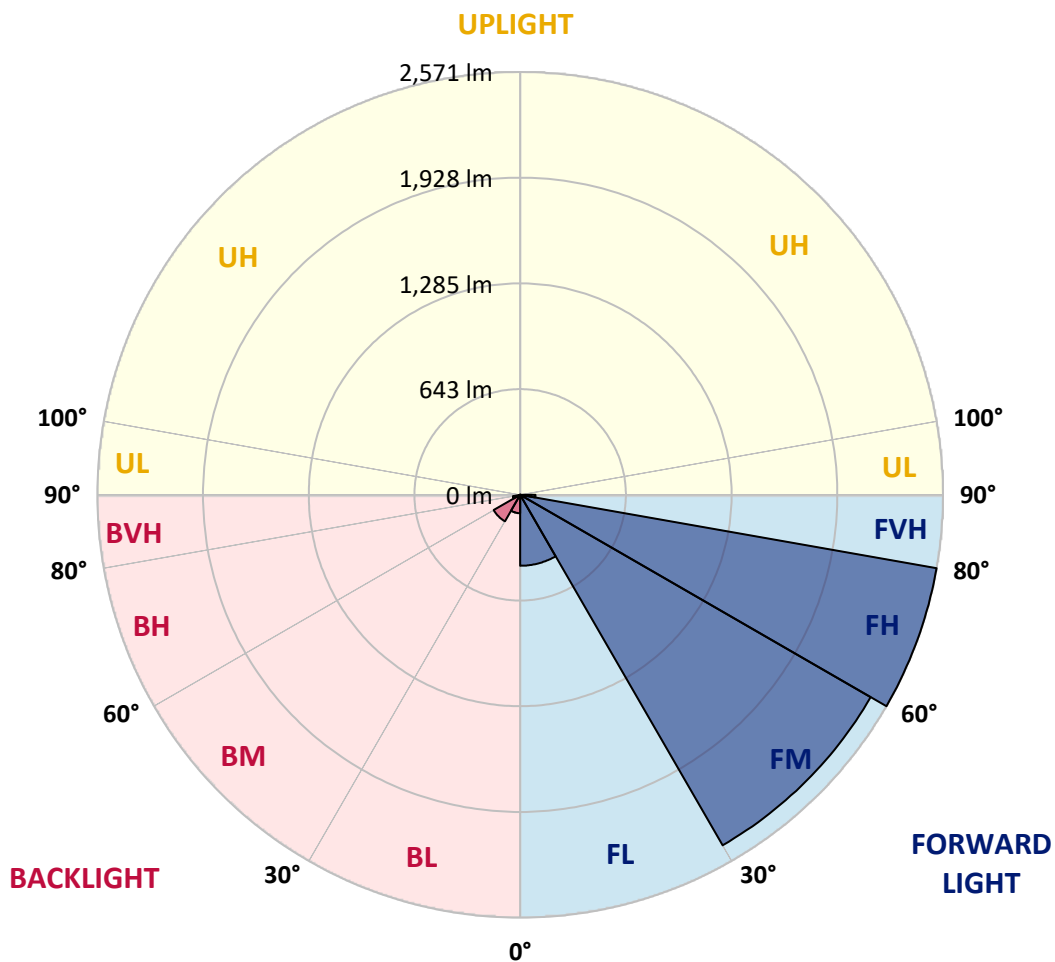
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.6	7.3			
FM	(30°-60°)	2460.5	41.7			
FH	(60°-80°)	2570.9	43.6			G2/5000
FVH	(80°-90°)	93.2	1.6			G1/100
BL	(0°-30°)	111.8	1.9	B1/500		
BM	(30°-60°)	185.6	3.1	B0/220		
BH	(60°-80°)	44.8	0.8	B0/110		G0/110
BVH	(80°-90°)	3.0	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7
2.5°	968.1	962.8	959.7	955.5	950.2	945.6	943.9	930.9	918.6	901.7	882.4
5°	986.0	984.3	978.6	973.0	966.7	959.7	955.8	940.4	922.8	898.2	864.5
7.5°	987.8	985.7	978.6	970.9	962.1	953.7	947.0	931.6	915.4	890.5	849.4
10°	985.0	982.5	977.2	968.8	957.9	949.8	943.2	928.4	914.7	892.2	846.6
12.5°	981.8	979.3	976.9	972.7	963.2	957.6	951.9	937.9	925.6	906.6	856.8
15°	985.0	983.6	986.4	984.6	979.3	974.4	968.8	956.2	944.9	929.1	875.4
17.5°	998.3	998.3	1007.1	1008.2	1003.2	996.2	988.1	975.5	966.0	952.7	897.5
20°	1029.6	1028.5	1039.8	1041.9	1029.9	1019.0	1007.1	991.6	984.3	975.8	919.3
22.5°	1083.3	1078.4	1085.1	1083.0	1059.4	1042.6	1027.8	1008.9	1005.0	1001.1	943.5
25°	1153.2	1150.4	1155.0	1134.3	1092.8	1070.0	1052.4	1031.0	1031.0	1034.8	970.9
27.5°	1254.7	1244.2	1228.8	1192.2	1130.0	1100.9	1081.9	1059.1	1065.1	1079.5	1007.1
30°	1358.7	1347.1	1311.7	1255.4	1175.4	1144.8	1122.7	1098.8	1112.8	1139.2	1055.6
32.5°	1461.3	1448.3	1398.1	1327.1	1240.3	1209.8	1188.4	1162.0	1185.5	1229.8	1126.5
35°	1560.7	1549.1	1491.2	1407.6	1326.8	1301.5	1281.8	1259.0	1289.2	1351.0	1226.6
37.5°	1672.4	1659.8	1589.2	1498.5	1431.8	1413.5	1399.1	1376.3	1429.0	1519.6	1366.1
40°	1809.8	1788.3	1693.1	1602.9	1553.3	1544.5	1534.7	1531.5	1613.4	1738.8	1551.9
42.5°	1967.1	1932.0	1802.0	1712.8	1686.8	1693.1	1690.7	1704.7	1844.2	2011.4	1778.1
45°	2124.5	2079.2	1923.2	1830.1	1833.6	1855.8	1869.5	1925.7	2133.3	2324.0	2021.6
47.5°	2258.0	2213.4	2039.5	1956.9	1999.1	2042.7	2079.9	2186.3	2430.5	2631.7	2210.9
50°	2372.1	2330.0	2162.8	2096.4	2191.2	2261.5	2321.9	2479.6	2750.1	2866.0	2343.7
52.5°	2465.6	2437.5	2290.7	2256.2	2410.8	2513.7	2602.2	2791.2	3033.2	3056.4	2447.0
55°	2556.6	2536.5	2428.0	2446.3	2668.6	2808.8	2920.8	3121.8	3277.0	3215.2	2546.0
57.5°	2661.2	2643.0	2584.7	2687.2	3007.6	3183.9	3306.2	3414.7	3491.7	3377.5	2639.5
60°	2768.0	2757.5	2758.9	2954.9	3396.8	3566.1	3633.6	3661.7	3702.4	3530.3	2644.7
62.5°	2869.9	2889.9	2958.1	3252.8	3769.5	3899.5	3933.6	3961.3	3913.5	3554.5	2443.5
65°	3042.4	3075.0	3237.7	3651.5	4179.4	4318.5	4353.7	4258.5	3946.9	3241.2	1987.5
67.5°	3126.7	3186.4	3476.5	4023.1	4577.1	4731.6	4718.6	4277.8	3541.9	2471.6	1275.5
69°	3109.1	3172.7	3531.7	4136.9	4709.2	4849.3	4766.8	4041.4	3017.4	1790.4	783.0
70°	3039.6	3103.8	3503.2	4132.7	4726.0	4837.0	4677.5	3749.5	2551.3	1309.2	489.7
72.5°	2538.3	2593.8	3110.2	3735.4	4353.7	4263.4	3913.2	2597.7	1243.2	356.5	110.3
75°	1562.5	1593.4	2231.6	2814.0	3288.3	3056.4	2607.1	1292.3	370.6	100.8	61.1
77.5°	825.5	839.5	1221.7	1658.7	2084.5	1724.7	1336.2	504.1	170.7	63.2	44.3
80°	487.9	498.5	657.9	758.4	902.1	753.5	534.3	309.5	122.2	39.7	39.3
82.5°	279.3	285.9	477.0	421.5	355.5	303.5	265.9	293.3	73.4	26.7	40.7
85°	102.6	104.0	268.4	320.7	211.5	125.8	132.1	243.1	19.7	16.9	32.0
87.5°	47.8	46.7	138.1	196.4	123.6	79.7	102.9	53.4	7.7	10.9	8.8
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°	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7
2.5°	871.2	858.2	834.6	810.4	785.8	766.8	748.2	733.5	728.5	719.4	720.1
5°	844.5	820.6	771.4	721.5	669.5	626.7	586.3	553.6	537.8	521.6	521.6
7.5°	821.3	786.5	709.6	628.4	544.5	473.9	410.3	362.5	336.2	315.1	314.7
10°	812.5	765.4	657.9	541.7	424.7	328.4	252.9	204.4	179.5	163.3	162.6
12.5°	816.4	758.0	618.2	461.6	314.7	211.1	146.5	115.2	104.7	99.8	99.8
15°	827.6	755.9	578.5	383.2	222.4	132.1	97.3	88.9	88.2	88.2	88.2
17.5°	841.3	756.6	537.8	307.0	151.4	94.5	84.0	82.9	83.6	83.6	83.6
20°	855.3	757.0	493.9	236.4	106.8	82.2	79.0	78.7	79.4	79.4	79.7
22.5°	872.6	758.7	450.0	176.7	88.2	77.6	75.2	75.2	75.5	75.5	75.2
25°	892.2	762.3	404.3	131.0	80.4	74.5	72.4	72.0	72.4	72.0	71.7
27.5°	916.8	767.2	353.4	102.6	76.9	71.3	69.6	69.6	69.2	68.8	68.5
30°	947.7	772.8	296.1	87.1	73.4	68.5	66.7	66.4	66.0	65.3	65.3
32.5°	994.8	785.1	239.6	79.0	69.6	64.6	63.2	63.2	62.5	61.8	61.5
35°	1067.2	809.3	189.0	74.1	65.3	60.4	58.7	58.7	58.0	57.6	57.3
37.5°	1167.3	846.2	146.8	69.6	61.1	55.9	54.1	53.7	53.0	52.3	52.0
40°	1300.4	891.9	115.6	65.3	56.9	51.3	49.9	49.2	47.8	46.7	46.7
42.5°	1467.6	943.9	93.8	60.8	52.0	47.1	46.0	45.0	42.5	41.5	41.1
45°	1642.6	990.6	79.4	55.5	47.1	42.9	42.2	40.4	37.2	36.2	36.2
47.5°	1768.7	1001.5	69.9	50.6	42.5	38.3	37.9	34.8	32.0	31.3	30.9
50°	1847.3	980.1	62.2	45.7	38.3	34.1	33.0	29.2	27.4	26.7	26.3
52.5°	1900.4	941.8	55.9	41.5	34.4	30.2	27.8	24.9	23.5	22.8	22.8
55°	1942.9	887.7	49.5	37.6	31.3	27.0	23.5	21.4	20.0	19.3	19.3
57.5°	1954.8	814.3	43.2	34.4	28.1	23.9	20.0	18.6	16.9	16.5	16.5
60°	1868.1	681.8	38.3	30.6	25.3	20.7	17.6	15.8	14.1	13.7	13.3
62.5°	1639.4	527.6	33.7	27.0	22.1	17.9	15.1	13.0	11.6	11.6	11.6
65°	1250.5	353.7	29.5	23.5	19.3	15.1	13.0	10.5	9.8	9.8	10.2
67.5°	748.6	192.5	25.3	20.0	16.5	12.6	10.9	9.1	8.8	9.1	9.1
69°	438.7	113.1	22.8	17.9	14.4	11.2	9.5	8.1	8.8	9.1	9.1
70°	270.8	76.2	21.1	16.2	13.0	10.2	8.8	7.7	8.4	8.8	8.8
72.5°	75.5	39.3	16.9	12.6	10.5	8.4	7.0	7.0	8.1	8.4	8.4
75°	49.2	29.2	13.0	9.5	8.1	6.7	6.0	6.7	7.7	8.1	8.1
77.5°	40.7	23.9	10.5	7.7	6.7	6.3	5.6	6.0	7.0	7.4	7.4
80°	37.2	16.9	8.4	7.0	6.0	5.6	5.3	4.9	6.3	6.7	6.7
82.5°	35.5	13.3	7.4	6.3	5.6	4.9	4.6	4.9	5.6	6.0	6.3
85°	22.1	8.8	6.7	6.0	4.9	4.6	4.6	4.6	5.3	5.6	5.6
87.5°	8.1	7.0	6.0	4.9	4.2	4.2	4.2	4.2	4.6	5.3	5.3
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)