

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: P301927

Luminaire Tested: **GLNA-AF-02-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301927
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-02-LED-E1-SL4-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5722.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 66
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

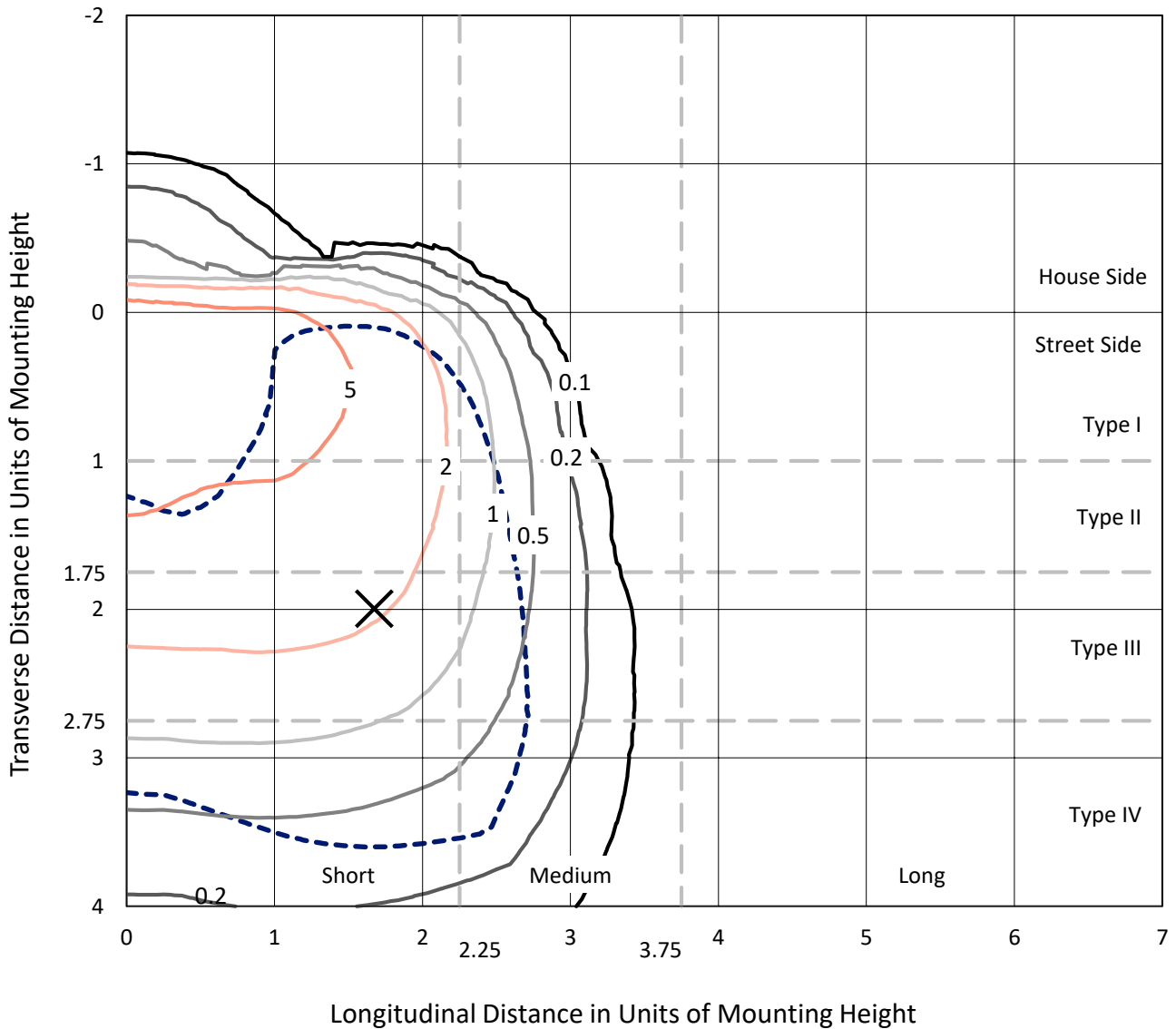


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

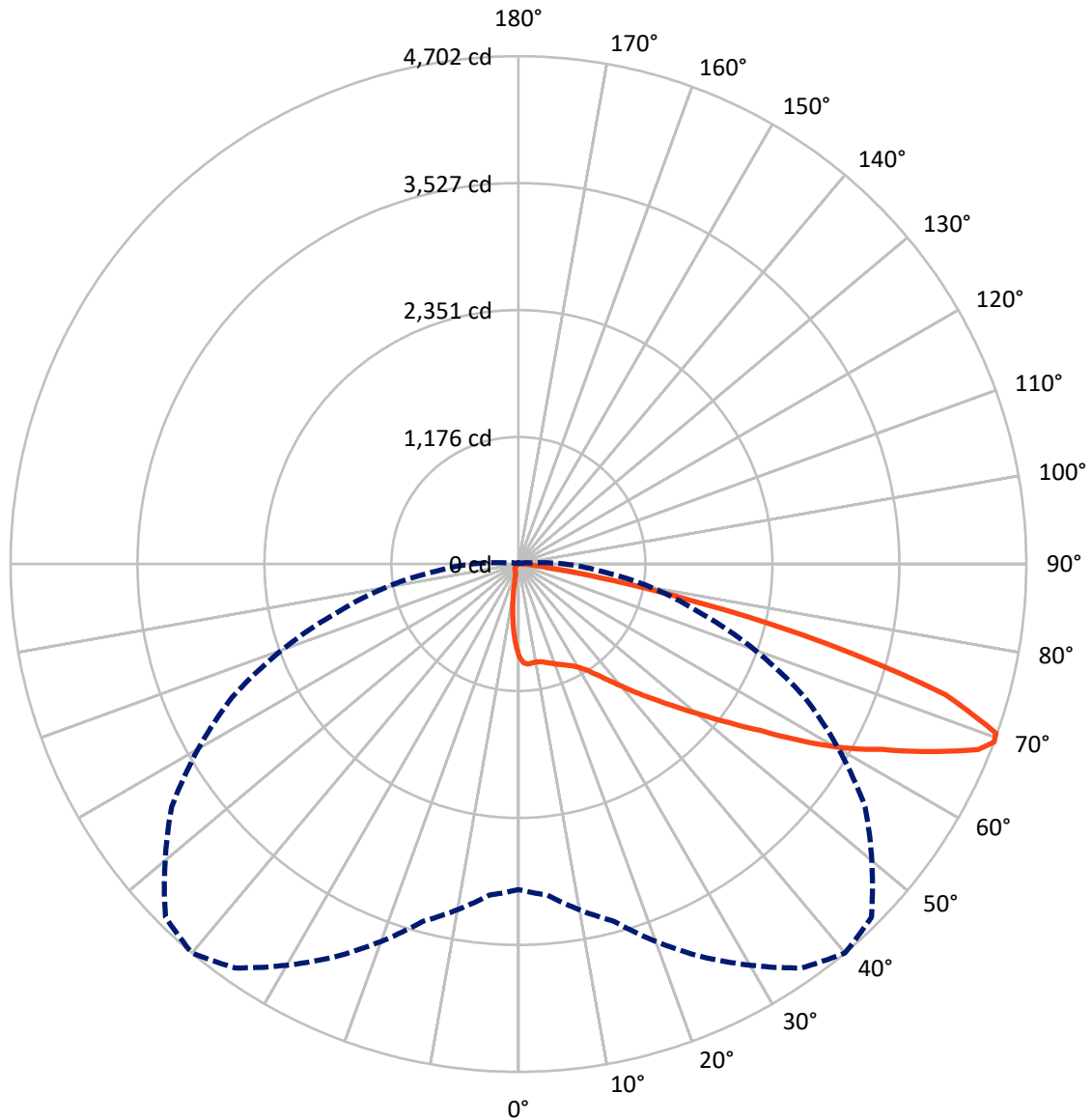


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Semi-Cutoff

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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	334.8	0.0	334.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5387.7	0.0	5387.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	5722.5	0.0	5722.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.2
10°-20°	170.5	3.0
20°-30°	287.1	5.0
30°-40°	470.1	8.2
40°-50°	813.9	14.2
50°-60°	1281.9	22.4
60°-70°	1674.2	29.3
70°-80°	862.3	15.1
80°-90°	93.3	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°	5722.5	100.0
0°-180°	5722.5	100.0



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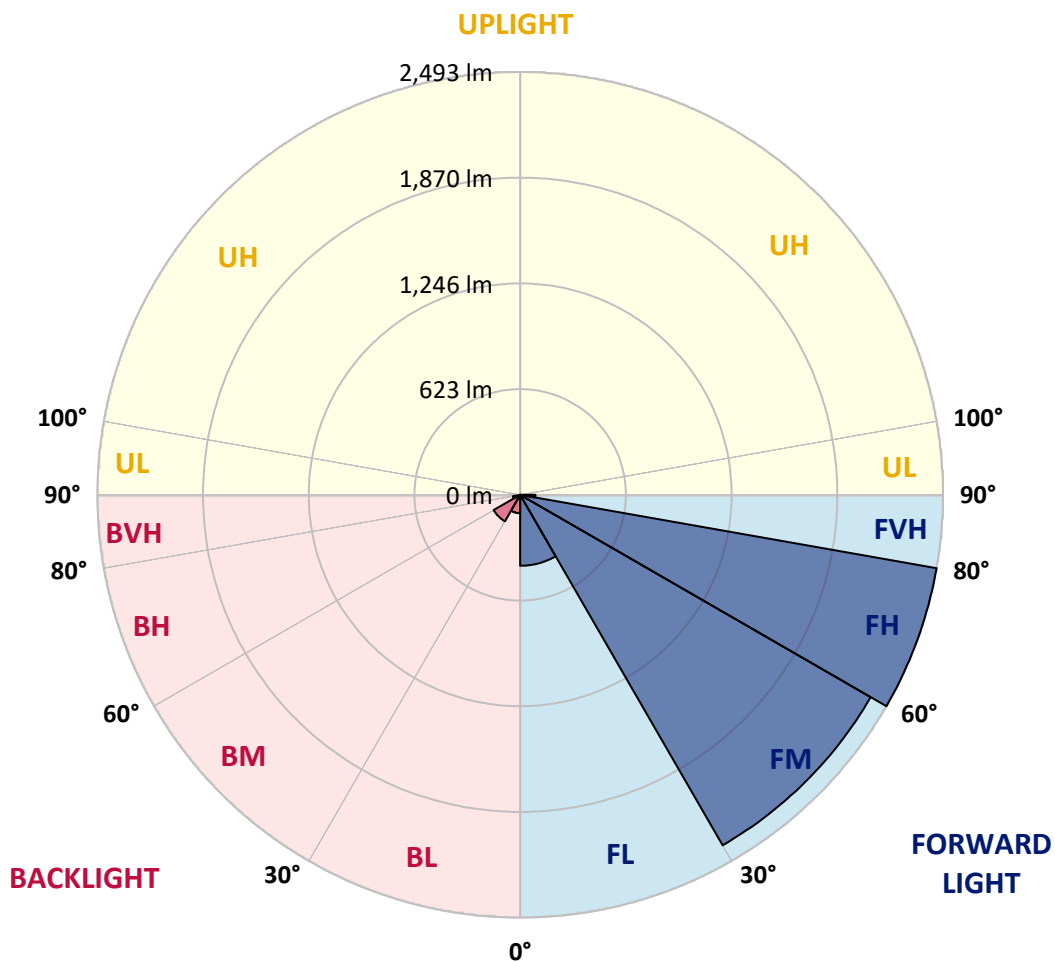
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.5	7.3			
FM	(30°-60°)	2385.9	41.7			
FH	(60°-80°)	2493.0	43.6			G2/5000
FVH	(80°-90°)	90.3	1.6			G1/100
BL	(0°-30°)	108.5	1.9	B0/110		
BM	(30°-60°)	179.9	3.1	B0/220		
BH	(60°-80°)	43.5	0.8	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0
2.5°	938.8	933.7	930.6	926.5	921.4	917.0	915.3	902.7	890.7	874.4	855.7
5°	956.1	954.4	949.0	943.5	937.4	930.6	926.8	911.9	894.8	871.0	838.3
7.5°	957.8	955.8	949.0	941.5	933.0	924.8	918.3	903.3	887.7	863.5	823.6
10°	955.1	952.7	947.6	939.4	928.9	921.1	914.6	900.3	887.0	865.2	820.9
12.5°	952.1	949.7	947.3	943.2	934.0	928.5	923.1	909.5	897.6	879.2	830.8
15°	955.1	953.8	956.5	954.8	949.7	944.9	939.4	927.2	916.3	901.0	848.8
17.5°	968.1	968.1	976.6	977.6	972.8	966.0	958.2	945.9	936.7	923.8	870.3
20°	998.4	997.4	1008.3	1010.3	998.7	988.2	976.6	961.6	954.4	946.3	891.4
22.5°	1050.5	1045.7	1052.2	1050.2	1027.3	1011.0	996.7	978.3	974.5	970.8	914.9
25°	1118.3	1115.6	1120.0	1099.9	1059.7	1037.5	1020.5	999.7	999.7	1003.5	941.5
27.5°	1216.7	1206.5	1191.5	1156.1	1095.8	1067.5	1049.1	1027.0	1032.8	1046.7	976.6
30°	1317.5	1306.3	1271.9	1217.4	1139.7	1110.1	1088.6	1065.5	1079.1	1104.7	1023.6
32.5°	1417.0	1404.4	1355.7	1286.9	1202.8	1173.1	1152.3	1126.8	1149.6	1192.5	1092.4
35°	1513.4	1502.2	1446.0	1364.9	1286.5	1262.0	1242.9	1220.8	1250.1	1310.0	1189.5
37.5°	1621.7	1609.5	1541.0	1453.1	1388.4	1370.7	1356.7	1334.6	1385.7	1473.6	1324.7
40°	1754.9	1734.1	1641.8	1554.3	1506.3	1497.7	1488.2	1485.1	1564.5	1686.1	1504.9
42.5°	1907.5	1873.4	1747.4	1660.9	1635.7	1641.8	1639.4	1653.1	1788.3	1950.4	1724.3
45°	2060.1	2016.2	1864.9	1774.7	1778.1	1799.5	1812.8	1867.3	2068.6	2253.6	1960.3
47.5°	2189.5	2146.3	1977.7	1897.6	1938.5	1980.7	2016.8	2120.1	2356.8	2552.0	2143.9
50°	2300.3	2259.4	2097.2	2032.9	2124.8	2193.0	2251.5	2404.5	2666.8	2779.2	2272.7
52.5°	2390.9	2363.6	2221.2	2187.8	2337.7	2437.5	2523.4	2706.6	2941.3	2963.8	2372.8
55°	2479.1	2459.7	2354.4	2372.1	2587.7	2723.6	2832.3	3027.1	3177.7	3117.8	2468.9
57.5°	2580.6	2562.9	2506.3	2605.8	2916.4	3087.4	3206.0	3311.2	3385.8	3275.1	2559.5
60°	2684.1	2673.9	2675.3	2865.4	3293.9	3458.0	3523.4	3550.7	3590.2	3423.3	2564.6
62.5°	2782.9	2802.3	2868.4	3154.2	3655.3	3781.3	3814.3	3841.2	3794.9	3446.8	2369.4
65°	2950.2	2981.8	3139.6	3540.8	4052.8	4187.7	4221.7	4129.4	3827.3	3143.0	1927.3
67.5°	3031.9	3089.8	3371.2	3901.2	4438.4	4588.2	4575.6	4148.1	3434.5	2396.6	1236.8
69°	3014.9	3076.5	3424.7	4011.6	4566.4	4702.3	4622.3	3918.9	2926.0	1736.2	759.3
70°	2947.4	3009.8	3397.1	4007.5	4582.8	4690.4	4535.8	3635.8	2474.0	1269.5	474.8
72.5°	2461.4	2515.2	3015.9	3622.2	4221.7	4134.2	3794.6	2518.9	1205.5	345.7	107.0
75°	1515.1	1545.1	2164.0	2728.8	3188.6	2963.8	2528.1	1253.2	359.4	97.8	59.3
77.5°	800.5	814.1	1184.7	1608.4	2021.3	1672.5	1295.7	488.8	165.5	61.3	42.9
80°	473.1	483.3	638.0	735.4	874.7	730.6	518.1	300.1	118.5	38.5	38.2
82.5°	270.8	277.3	462.6	408.8	344.7	294.3	257.9	284.4	71.2	25.9	39.5
85°	99.5	100.8	260.2	311.0	205.1	121.9	128.1	235.7	19.1	16.4	31.0
87.5°	46.3	45.3	133.9	190.4	119.9	77.3	99.8	51.8	7.5	10.6	8.5
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°	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0
2.5°	844.8	832.2	809.3	785.8	762.0	743.6	725.5	711.2	706.5	697.6	698.3
5°	818.9	795.7	748.0	699.6	649.2	607.7	568.5	536.8	521.5	505.8	505.8
7.5°	796.4	762.7	688.1	609.4	528.0	459.5	397.9	351.5	326.0	305.5	305.2
10°	787.9	742.2	638.0	525.2	411.8	318.5	245.3	198.2	174.1	158.4	157.7
12.5°	791.6	735.1	599.5	447.6	305.2	204.7	142.0	111.7	101.5	96.7	96.7
15°	802.5	733.0	561.0	371.6	215.6	128.1	94.4	86.2	85.5	85.5	85.5
17.5°	815.8	733.7	521.5	297.7	146.8	91.6	81.4	80.4	81.1	81.1	81.1
20°	829.4	734.1	478.9	229.2	103.6	79.7	76.6	76.3	77.0	77.0	77.3
22.5°	846.1	735.8	436.3	171.3	85.5	75.3	72.9	72.9	73.2	73.2	72.9
25°	865.2	739.2	392.1	127.1	78.0	72.2	70.2	69.8	70.2	69.8	69.5
27.5°	889.0	743.9	342.7	99.5	74.6	69.1	67.4	67.4	67.1	66.8	66.4
30°	919.0	749.4	287.1	84.5	71.2	66.4	64.7	64.4	64.0	63.4	63.4
32.5°	964.7	761.3	232.3	76.6	67.4	62.7	61.3	61.3	60.6	60.0	59.6
35°	1034.8	784.8	183.3	71.9	63.4	58.6	56.9	56.9	56.2	55.9	55.5
37.5°	1131.9	820.6	142.4	67.4	59.3	54.2	52.5	52.1	51.4	50.8	50.4
40°	1261.0	864.9	112.1	63.4	55.2	49.7	48.4	47.7	46.3	45.3	45.3
42.5°	1423.1	915.3	90.9	58.9	50.4	45.6	44.6	43.6	41.2	40.2	39.9
45°	1592.8	960.6	77.0	53.8	45.6	41.6	40.9	39.2	36.1	35.1	35.1
47.5°	1715.1	971.1	67.8	49.1	41.2	37.1	36.8	33.7	31.0	30.3	30.0
50°	1791.4	950.3	60.3	44.3	37.1	33.0	32.0	28.3	26.6	25.9	25.5
52.5°	1842.8	913.2	54.2	40.2	33.4	29.3	26.9	24.2	22.8	22.1	22.1
55°	1884.0	860.8	48.0	36.4	30.3	26.2	22.8	20.8	19.4	18.7	18.7
57.5°	1895.6	789.6	41.9	33.4	27.3	23.2	19.4	18.1	16.4	16.0	16.0
60°	1811.5	661.2	37.1	29.6	24.5	20.1	17.0	15.3	13.6	13.3	12.9
62.5°	1589.7	511.6	32.7	26.2	21.5	17.4	14.6	12.6	11.2	11.2	11.2
65°	1212.6	343.0	28.6	22.8	18.7	14.6	12.6	10.2	9.5	9.5	9.9
67.5°	725.9	186.7	24.5	19.4	16.0	12.3	10.6	8.9	8.5	8.9	8.9
69°	425.4	109.7	22.1	17.4	14.0	10.9	9.2	7.8	8.5	8.9	8.9
70°	262.6	73.9	20.4	15.7	12.6	9.9	8.5	7.5	8.2	8.5	8.5
72.5°	73.2	38.2	16.4	12.3	10.2	8.2	6.8	6.8	7.8	8.2	8.2
75°	47.7	28.3	12.6	9.2	7.8	6.5	5.8	6.5	7.5	7.8	7.8
77.5°	39.5	23.2	10.2	7.5	6.5	6.1	5.5	5.8	6.8	7.2	7.2
80°	36.1	16.4	8.2	6.8	5.8	5.5	5.1	4.8	6.1	6.5	6.5
82.5°	34.4	12.9	7.2	6.1	5.5	4.8	4.4	4.8	5.5	5.8	6.1
85°	21.5	8.5	6.5	5.8	4.8	4.4	4.4	4.4	5.1	5.5	5.5
87.5°	7.8	6.8	5.8	4.8	4.1	4.1	4.1	4.1	4.4	5.1	5.1
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)