

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: P299156

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4754.6 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

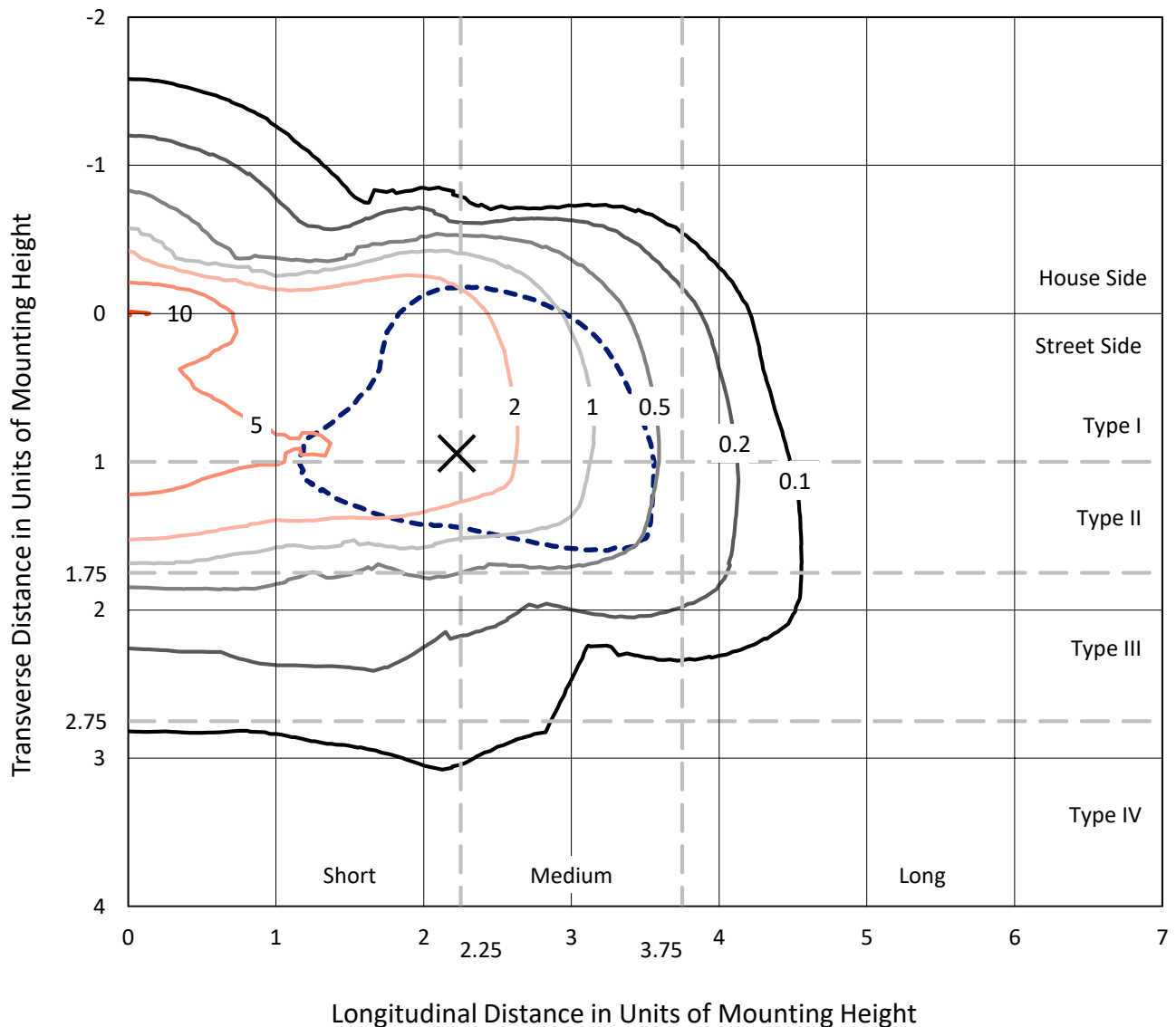
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

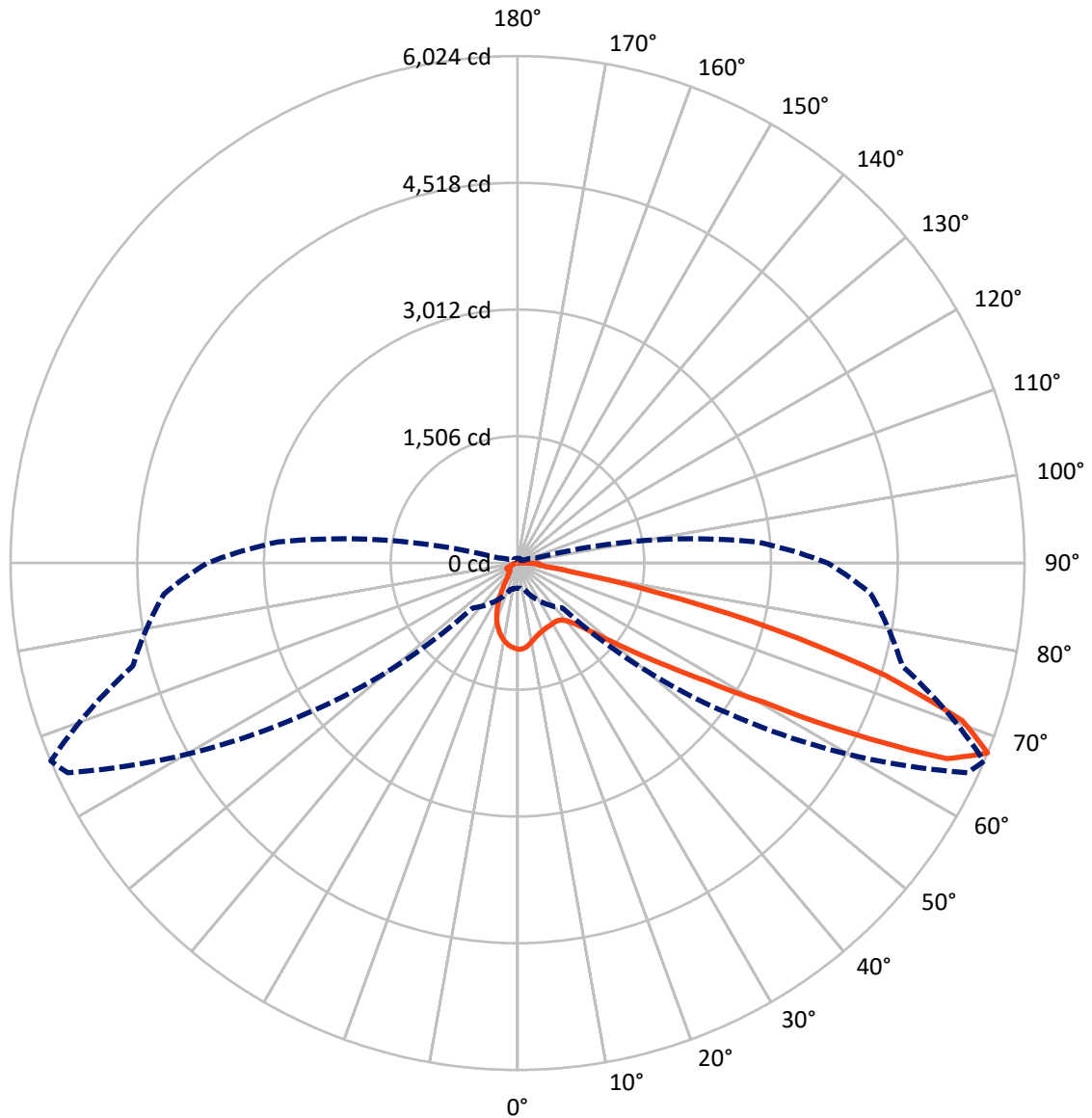
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	787.8	0.0	787.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3966.8	0.0	3966.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	4754.6	0.0	4754.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.8
10°-20°	202.4	4.3
20°-30°	274.4	5.8
30°-40°	390.1	8.2
40°-50°	652.7	13.7
50°-60°	1032.5	21.7
60°-70°	1315.4	27.7
70°-80°	689.0	14.5
80°-90°	110.5	2.3
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°	4754.6	100.0
0°-180°	4754.6	100.0

Coefficient of Utilization



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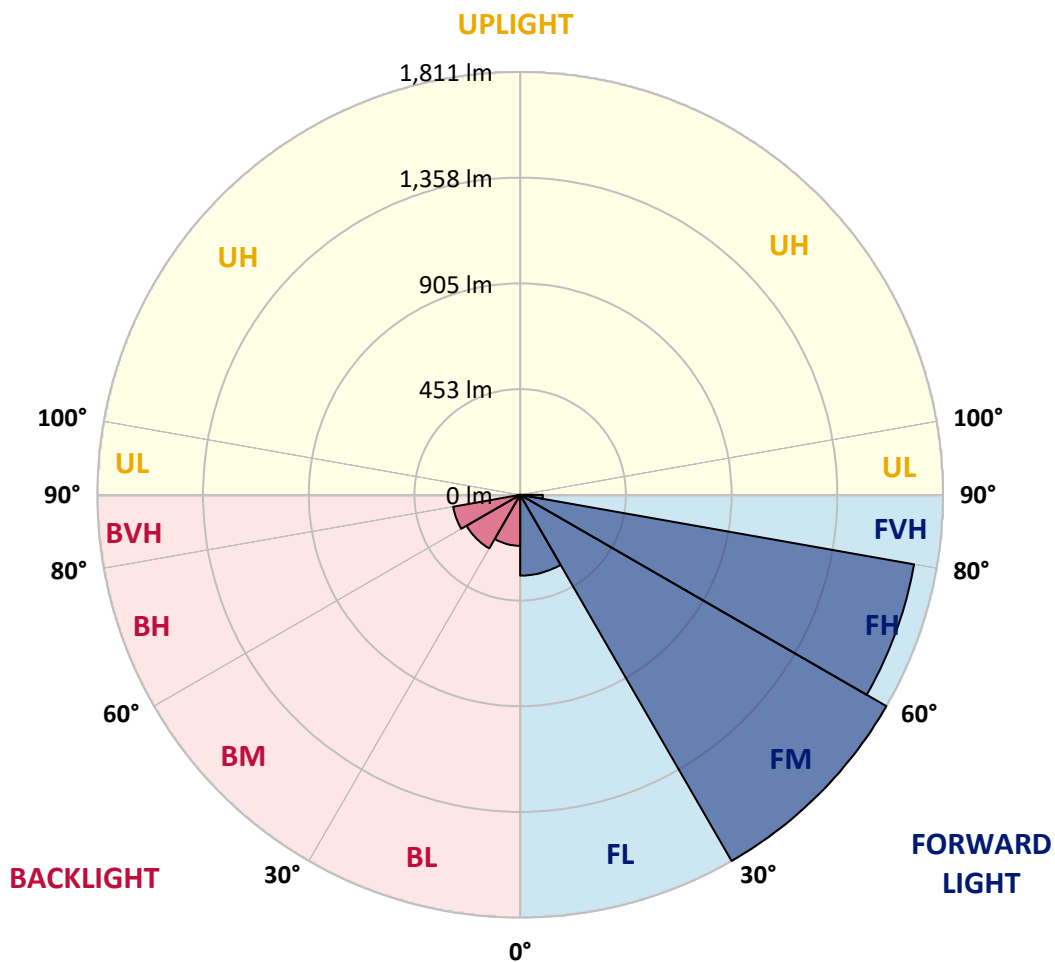
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.0	7.3			
FM (30°-60°)	1810.6	38.1			
FH (60°-80°)	1713.0	36.0			G1/1800
FVH (80°-90°)	97.2	2.0			G1/100
BL (0°-30°)	218.3	4.6	B1/500		
BM (30°-60°)	264.7	5.6	B1/1000		
BH (60°-80°)	291.4	6.1	B1/500		G1/500
BVH (80°-90°)	13.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5
2.5°	983.3	985.0	990.1	993.4	1008.2	1014.5	1019.0	1023.4	1024.1	1026.3	1024.1
5°	880.2	883.7	893.3	904.1	932.7	955.2	978.9	1003.5	1008.0	1023.9	1028.4
7.5°	800.2	799.3	807.3	820.2	849.5	880.6	922.1	971.2	980.8	1016.6	1034.0
10°	741.8	741.1	749.6	762.9	790.8	820.4	867.3	934.3	947.9	1005.2	1039.4
12.5°	698.7	698.9	707.4	722.2	750.5	780.3	827.9	898.7	916.1	991.8	1045.0
15°	670.1	672.0	678.8	694.5	722.2	751.9	798.6	872.0	891.4	981.2	1051.3
17.5°	660.5	663.5	665.9	677.4	701.0	730.8	776.5	852.3	872.9	974.0	1057.0
20°	669.4	672.9	668.5	672.4	687.5	713.7	759.2	836.8	857.9	965.8	1057.7
22.5°	707.6	710.9	697.8	686.3	685.3	701.3	744.9	824.6	846.4	959.7	1057.9
25°	774.9	777.0	755.0	728.2	702.2	696.8	734.8	816.2	839.4	954.3	1053.4
27.5°	857.4	859.1	833.8	794.4	742.1	707.4	731.3	811.2	835.4	949.6	1045.9
30°	957.8	965.5	931.5	881.8	805.6	738.6	738.3	808.7	830.9	941.6	1031.2
32.5°	1060.5	1063.8	1040.3	989.9	891.2	793.4	758.0	810.5	829.8	932.0	1012.4
35°	1164.6	1168.8	1153.6	1113.0	1008.2	873.8	796.5	821.6	837.0	928.7	999.3
37.5°	1299.4	1305.0	1283.9	1237.0	1150.5	982.9	860.5	849.2	859.3	938.1	995.3
40°	1512.5	1510.0	1448.3	1378.4	1306.2	1122.4	951.9	896.1	902.0	968.3	1007.5
42.5°	1760.6	1754.3	1648.1	1538.3	1477.4	1291.2	1072.9	977.5	976.3	1027.9	1050.4
45°	1958.5	1953.3	1857.7	1722.4	1673.6	1483.5	1229.3	1098.7	1090.0	1122.4	1129.7
47.5°	2065.6	2065.9	2010.8	1900.3	1899.2	1727.8	1430.2	1274.1	1259.1	1274.3	1266.6
50°	2028.1	2033.0	2027.2	1992.0	2105.0	2048.0	1692.6	1518.6	1488.4	1503.4	1473.6
52.5°	1846.6	1853.0	1887.7	1941.6	2191.5	2435.2	2078.1	1822.5	1787.3	1781.9	1748.9
55°	1525.0	1532.7	1603.5	1750.0	2119.6	2695.2	2686.3	2209.8	2153.8	2102.9	2088.8
57.5°	1051.1	1064.0	1178.0	1395.5	1886.7	2773.7	3410.5	2762.0	2648.0	2470.3	2473.6
60°	592.5	607.5	741.8	939.5	1416.9	2688.4	3961.5	3598.3	3357.8	2900.6	2924.9
62.5°	376.8	393.0	495.0	652.7	850.2	2228.8	4187.3	4761.0	4455.5	3430.9	3454.8
65°	305.0	312.1	360.1	538.8	617.3	1342.8	4015.9	5718.8	5604.9	4104.1	3992.5
67.5°	297.8	300.1	325.0	452.3	592.0	754.7	3203.3	5898.0	6024.3	4732.7	4216.4
70°	294.3	302.5	366.2	431.6	566.9	636.6	1925.0	5407.0	5606.5	4897.0	3918.4
72.5°	142.8	142.3	184.3	390.4	638.7	660.3	989.0	4374.9	4575.1	4242.6	3219.9
75°	115.1	105.3	100.6	143.0	614.1	681.8	630.2	3010.3	3155.2	2844.5	1979.4
77.5°	109.3	97.5	89.3	89.6	259.6	723.1	533.9	1666.1	1708.3	1284.9	542.3
80°	90.5	79.7	73.9	83.2	125.7	688.6	577.3	754.0	691.9	315.6	180.5
82.5°	62.8	57.2	55.6	69.9	100.6	490.7	671.3	405.2	339.7	158.0	111.4
85°	40.1	34.2	38.0	50.9	78.3	226.5	691.4	315.8	251.1	100.4	62.8
87.5°	18.5	15.0	18.8	28.1	51.1	78.1	657.9	354.7	258.6	53.0	39.6
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°	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5
2.5°	1026.0	1021.6	1018.0	1011.5	1004.2	997.2	990.8	982.9	980.5	978.4	981.7
5°	1029.3	1024.8	1011.9	991.8	969.5	948.6	927.8	910.0	898.9	892.8	896.4
7.5°	1034.2	1027.9	1001.2	964.1	924.0	887.4	849.7	819.5	797.2	786.6	789.7
10°	1038.7	1026.5	982.9	927.3	868.7	814.3	754.7	705.5	668.9	649.7	654.4
12.5°	1040.6	1021.1	957.3	881.4	800.9	721.2	633.5	559.9	507.4	488.2	484.2
15°	1042.4	1015.0	929.2	829.1	719.1	606.3	483.5	395.3	351.7	342.1	340.0
17.5°	1042.9	1004.4	897.3	772.3	623.2	469.6	330.6	274.6	274.8	290.3	292.1
20°	1038.0	988.7	858.6	701.8	508.3	324.7	227.0	217.3	252.8	291.4	296.1
22.5°	1026.7	967.9	814.8	619.5	376.8	213.8	175.6	186.2	231.9	279.2	284.6
25°	1012.4	942.5	762.9	524.0	249.5	152.9	147.2	160.1	191.1	222.7	225.8
27.5°	993.0	912.5	704.8	414.8	162.0	125.9	129.7	138.3	151.0	165.1	166.5
30°	967.9	876.7	642.7	302.5	122.4	113.2	118.6	123.3	128.7	136.7	137.4
32.5°	939.0	842.2	578.9	208.9	108.6	106.7	110.9	113.2	117.5	122.4	122.9
35°	914.9	809.4	512.8	147.7	102.7	101.8	104.6	105.5	109.5	114.9	115.4
37.5°	901.0	782.6	444.5	119.1	98.7	97.3	98.9	98.9	104.6	112.5	113.7
40°	902.0	767.9	376.3	107.6	95.4	93.6	93.8	93.8	101.1	109.7	110.4
42.5°	927.5	771.6	315.8	103.2	92.8	90.7	89.6	90.3	96.4	102.0	102.5
45°	987.6	798.1	259.1	100.4	90.3	89.6	87.0	86.8	89.1	91.7	91.7
47.5°	1086.0	850.4	220.6	98.5	88.2	87.9	84.9	81.8	81.6	82.5	82.5
50°	1246.2	940.4	194.8	96.4	86.8	84.9	81.4	76.7	75.0	75.7	75.7
52.5°	1486.3	1101.0	185.0	93.6	83.7	80.7	76.7	72.0	70.6	70.8	70.8
55°	1801.2	1347.7	183.6	90.3	80.4	75.5	72.2	68.7	67.1	67.5	67.5
57.5°	2185.9	1688.8	208.7	85.1	76.0	70.3	68.5	66.1	64.9	65.7	65.4
60°	2653.7	2135.3	309.5	79.7	71.5	65.7	65.7	63.8	62.8	63.5	63.3
62.5°	3192.5	2648.0	435.2	75.7	66.8	61.9	62.8	61.9	61.0	61.4	61.2
65°	3670.3	2982.2	407.5	72.7	62.1	58.4	60.0	59.6	58.9	59.3	59.1
67.5°	3684.1	2858.4	228.8	69.4	57.7	54.9	57.2	57.0	56.5	57.0	56.7
70°	3287.9	2413.6	129.0	63.3	53.0	50.6	53.9	53.7	53.2	54.2	53.9
72.5°	2634.2	1751.5	94.3	55.8	48.3	46.2	49.9	49.7	49.7	51.1	50.4
75°	1515.8	901.3	75.3	47.8	43.4	41.7	45.0	45.3	45.7	47.6	46.2
77.5°	432.1	280.9	61.4	40.6	37.3	36.6	39.9	40.3	40.6	42.7	40.8
80°	160.6	129.4	50.6	34.0	30.5	30.7	33.8	34.5	34.7	36.8	34.5
82.5°	102.5	85.3	41.0	26.3	23.9	23.7	27.4	28.4	28.4	28.6	27.2
85°	59.8	51.1	30.9	19.0	16.9	16.2	20.4	22.0	21.3	20.9	19.9
87.5°	40.1	35.2	19.0	10.6	9.1	8.7	12.0	13.1	12.7	12.0	11.3
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)