

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: P299936

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

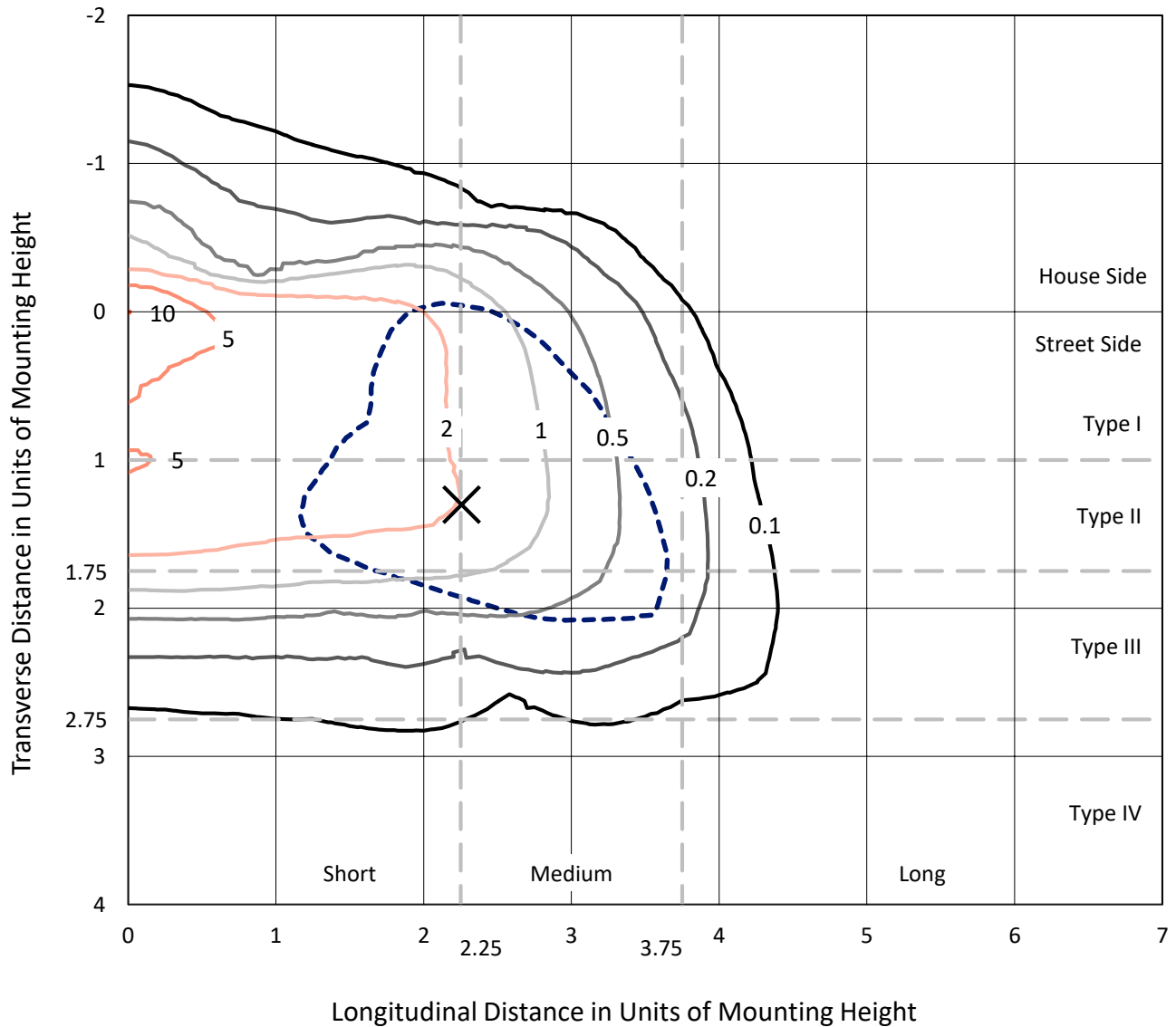
Lumens per Lamp: N/A  
Luminaire Lumens: 3957.9 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (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

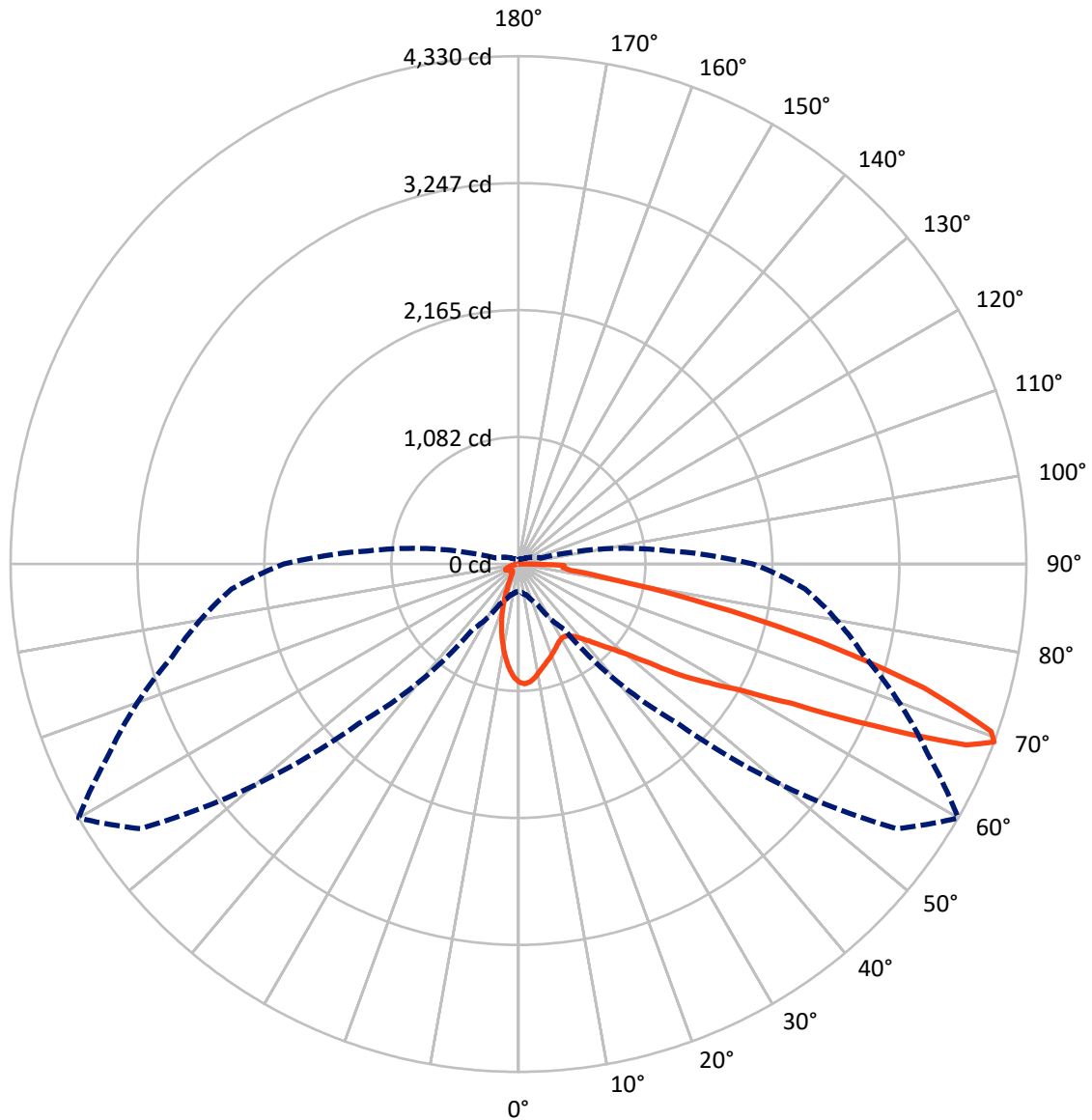
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	563.1	0.0	563.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	3394.8	0.0	3394.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	3957.9	0.0	3957.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	2.2
10°-20°	181.7	4.6
20°-30°	231.5	5.8
30°-40°	318.2	8.0
40°-50°	516.4	13.0
50°-60°	828.2	20.9
60°-70°	1102.2	27.8
70°-80°	595.1	15.0
80°-90°	99.3	2.5
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°	3957.9	100.0
0°-180°	3957.9	100.0



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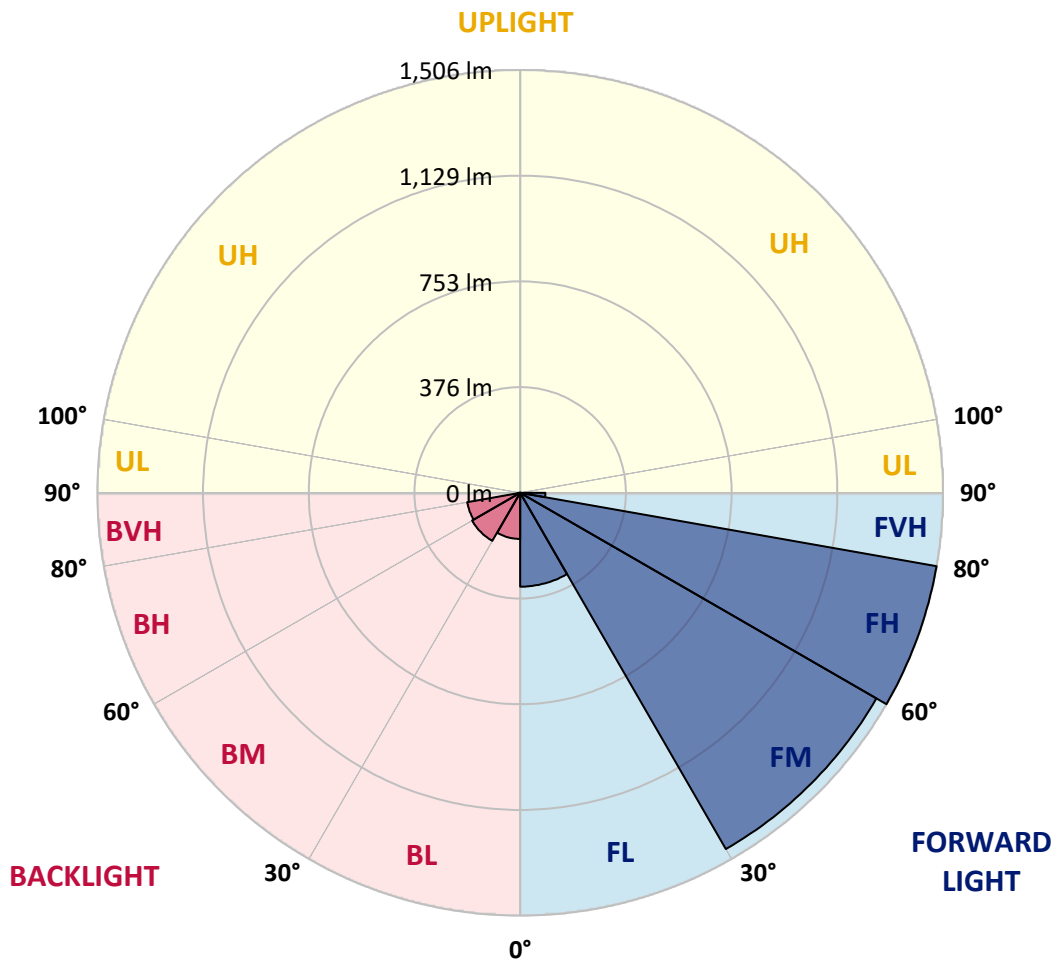
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.2	8.4			
FM	(30°-60°)	1465.0	37.0			
FH	(60°-80°)	1505.9	38.0			G1/1800
FVH	(80°-90°)	89.7	2.3			G1/100
BL	(0°-30°)	164.3	4.2	B1/500		
BM	(30°-60°)	197.8	5.0	B0/220		
BH	(60°-80°)	191.4	4.8	B1/500		G1/500
BVH	(80°-90°)	9.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5
2.5°	1029.2	1031.5	1030.5	1029.9	1031.7	1029.0	1023.4	1021.7	1019.0	1012.7	1002.0
5°	990.6	997.4	997.1	1002.2	1010.8	1013.1	1010.6	1011.0	1006.0	998.2	980.4
7.5°	923.8	926.7	928.2	939.5	955.2	967.8	978.5	982.0	979.7	973.0	950.0
10°	855.0	857.3	860.9	874.1	894.0	911.4	931.7	943.3	948.3	947.2	921.5
12.5°	795.9	798.2	803.0	817.9	841.6	863.0	892.5	907.0	918.9	925.9	898.4
15°	743.0	747.9	752.5	769.7	796.3	824.4	857.7	876.0	894.4	910.3	878.0
17.5°	701.7	706.6	709.3	725.0	753.3	787.7	826.7	848.3	871.3	897.3	857.7
20°	677.8	680.1	678.9	687.7	713.1	749.7	795.9	821.0	848.7	885.0	837.4
22.5°	671.1	671.3	667.1	666.1	682.6	713.3	763.0	793.4	827.5	877.0	820.0
25°	687.3	686.8	675.3	665.9	667.6	685.6	731.3	766.7	809.7	875.3	806.6
27.5°	723.5	725.2	708.2	690.6	673.2	672.6	707.2	744.5	795.2	883.1	800.9
30°	774.1	777.0	758.8	736.5	703.8	676.8	697.8	731.3	786.2	899.4	799.9
32.5°	829.6	832.6	818.9	795.4	752.5	702.8	704.3	732.5	785.8	922.1	806.4
35°	888.7	892.1	885.0	865.1	817.5	750.8	729.2	751.0	798.2	956.9	823.8
37.5°	954.6	960.0	961.9	943.0	892.1	814.1	769.9	786.2	826.3	1005.3	855.8
40°	1049.6	1057.1	1056.5	1029.4	977.6	899.6	832.8	837.0	870.1	1069.9	906.8
42.5°	1231.7	1233.2	1185.6	1126.5	1071.6	989.4	907.0	903.6	930.5	1151.7	982.0
45°	1463.2	1456.9	1351.0	1236.8	1169.9	1092.7	1003.6	986.7	1007.2	1251.5	1076.0
47.5°	1655.3	1640.8	1507.0	1349.4	1273.9	1204.9	1116.9	1087.5	1098.8	1364.7	1197.6
50°	1722.1	1711.2	1600.3	1443.1	1372.4	1341.8	1256.5	1214.8	1217.9	1499.7	1340.1
52.5°	1707.7	1706.2	1632.2	1504.9	1464.5	1485.6	1454.2	1397.8	1368.0	1649.6	1493.8
55°	1673.9	1677.1	1650.4	1576.8	1569.9	1624.4	1712.5	1670.8	1578.1	1800.8	1652.7
57.5°	1556.3	1564.7	1623.6	1667.2	1739.5	1820.5	1920.5	1908.7	1804.3	1964.3	1841.6
60°	1253.8	1273.3	1431.3	1649.6	1914.0	2167.5	2212.3	2184.7	2037.5	2167.2	2091.1
62.5°	878.5	898.8	1086.5	1428.2	1885.3	2559.5	2733.8	2615.1	2372.5	2466.0	2414.0
65°	470.3	480.1	623.5	990.9	1591.7	2640.4	3496.1	3315.4	2902.9	2834.4	2690.3
67.5°	259.4	264.8	319.7	500.3	1019.4	2325.1	3981.7	4118.3	3565.7	3079.7	2640.0
69°	234.6	239.6	275.5	378.9	682.2	1922.4	3934.3	4329.9	3856.3	3055.4	2454.1
70°	229.4	234.0	266.3	349.3	552.2	1584.6	3775.5	4275.8	3925.5	2968.4	2292.0
72.5°	206.5	211.5	242.8	313.7	471.9	790.0	2990.6	3615.2	3564.0	2573.8	1738.5
75°	192.5	197.1	250.3	307.2	451.8	500.0	1971.6	2664.4	2619.9	1800.4	937.4
77.5°	82.4	82.0	116.1	260.0	458.5	484.1	1059.4	1664.5	1518.6	769.5	269.2
80°	55.1	54.1	55.1	76.5	420.4	486.8	555.0	844.9	638.2	196.2	132.7
82.5°	47.4	46.7	48.4	46.7	147.8	555.6	471.9	449.3	303.4	111.5	65.8
85°	31.9	30.6	41.7	41.9	69.8	493.7	531.5	379.5	245.5	66.2	32.5
87.5°	15.3	14.9	24.3	29.6	40.9	200.6	596.3	388.9	247.6	33.8	15.5
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°	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5
2.5°	998.8	990.9	983.3	974.1	964.6	953.9	948.5	943.1	941.8	940.3	934.9
5°	971.3	960.2	941.0	920.0	897.8	876.2	859.8	849.5	841.6	837.6	830.5
7.5°	935.7	919.4	886.0	849.7	812.4	778.3	748.9	730.4	712.8	704.5	695.2
10°	901.8	877.6	825.6	772.0	718.5	667.1	618.7	584.5	554.1	537.1	525.0
12.5°	872.8	839.5	767.4	695.0	621.6	548.3	475.9	418.9	371.3	346.2	333.4
15°	844.5	804.3	712.2	620.2	526.0	426.4	331.1	266.5	227.1	211.5	206.1
17.5°	818.9	767.4	656.7	544.9	427.3	306.9	222.5	187.0	171.9	166.7	165.0
20°	791.1	730.2	599.2	466.1	324.5	214.5	173.8	158.1	152.0	150.5	149.7
22.5°	764.4	693.5	544.1	381.8	233.1	165.6	149.3	142.8	141.9	143.2	143.2
25°	741.6	660.6	484.7	293.7	171.1	139.4	133.6	132.1	135.7	140.7	141.7
27.5°	724.6	633.6	421.4	216.8	136.3	121.2	121.0	123.5	132.5	142.1	144.0
30°	713.0	608.0	353.7	156.4	114.3	106.7	109.7	115.1	128.3	141.9	145.5
32.5°	707.0	589.1	283.2	121.0	97.9	93.7	98.8	105.3	118.3	131.0	135.7
35°	711.6	575.1	216.6	100.9	86.4	83.2	88.5	94.8	102.5	107.8	111.5
37.5°	728.8	569.6	163.5	90.4	78.6	75.5	79.7	83.4	86.4	87.9	89.7
40°	765.9	575.5	131.0	85.1	74.2	70.4	72.1	73.4	75.3	76.9	77.6
42.5°	820.6	593.3	117.4	83.0	71.9	66.3	66.0	66.5	69.0	71.9	72.5
45°	897.1	624.6	116.4	84.3	70.7	63.1	61.4	62.1	66.0	70.4	71.1
47.5°	994.8	672.4	124.1	88.3	71.7	61.4	58.5	59.5	64.2	70.2	71.1
50°	1113.1	739.1	136.9	94.3	75.9	61.8	57.5	58.1	63.1	69.6	70.5
52.5°	1252.9	833.8	150.8	100.0	80.3	64.2	58.3	57.0	61.6	67.3	68.4
55°	1408.3	955.2	165.2	105.2	82.6	67.3	59.8	55.4	58.7	63.5	64.4
57.5°	1599.1	1125.0	190.0	110.1	84.1	69.4	61.4	53.9	55.1	58.5	59.3
60°	1857.4	1365.1	233.8	118.3	87.6	70.2	61.2	52.6	51.4	53.3	53.7
62.5°	2167.0	1625.9	270.3	128.7	93.3	70.7	60.0	51.6	48.4	48.4	48.8
65°	2350.7	1695.7	250.1	137.3	98.1	70.2	58.7	50.7	46.1	44.0	44.2
67.5°	2194.9	1491.3	214.3	139.0	97.9	67.5	56.6	48.9	43.8	40.5	40.3
69°	1999.7	1286.7	198.3	134.4	93.3	64.0	53.9	47.0	42.1	38.6	38.4
70°	1842.3	1161.9	187.7	129.4	88.3	61.6	51.8	45.3	40.7	37.5	37.1
72.5°	1339.5	761.3	160.4	111.3	72.8	51.6	44.7	39.8	36.3	34.4	34.0
75°	669.4	363.1	130.2	90.2	55.8	41.3	36.7	33.3	31.5	31.2	31.0
77.5°	219.9	166.3	93.1	67.3	41.5	32.3	29.6	27.1	26.8	27.9	27.5
80°	120.8	96.7	59.1	44.5	28.3	23.7	23.3	22.0	22.6	24.5	24.1
82.5°	61.6	50.3	36.5	26.8	19.1	17.0	18.5	17.8	18.5	20.3	20.1
85°	30.4	27.5	23.1	16.3	12.6	10.9	13.2	13.8	14.1	15.5	15.5
87.5°	17.6	16.3	12.2	7.6	6.3	5.7	7.6	7.5	8.8	9.6	9.4
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)