

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: P301201

Luminaire Tested: **GLNA-AF-01-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)  
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-T3R-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4046.2 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

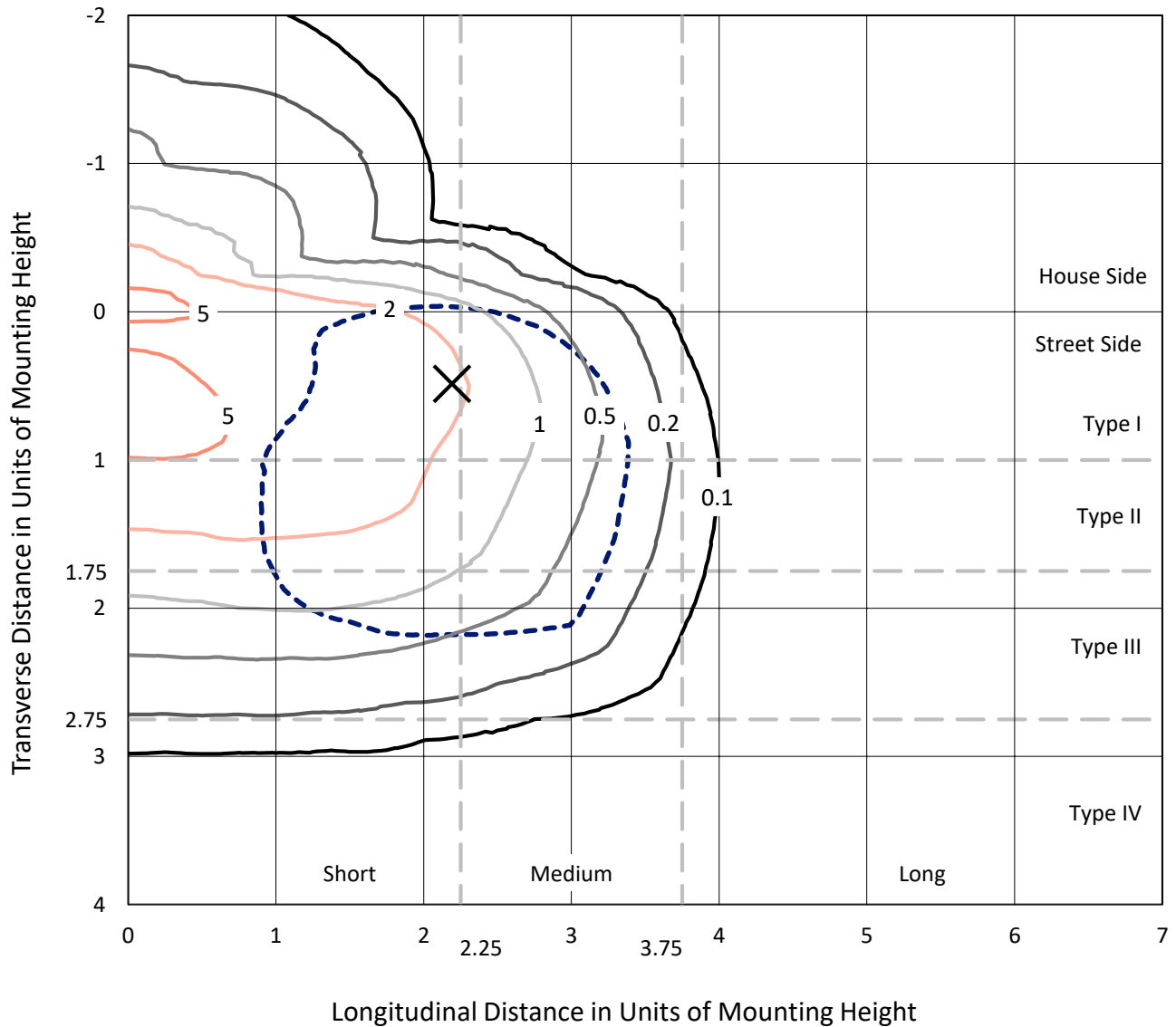
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

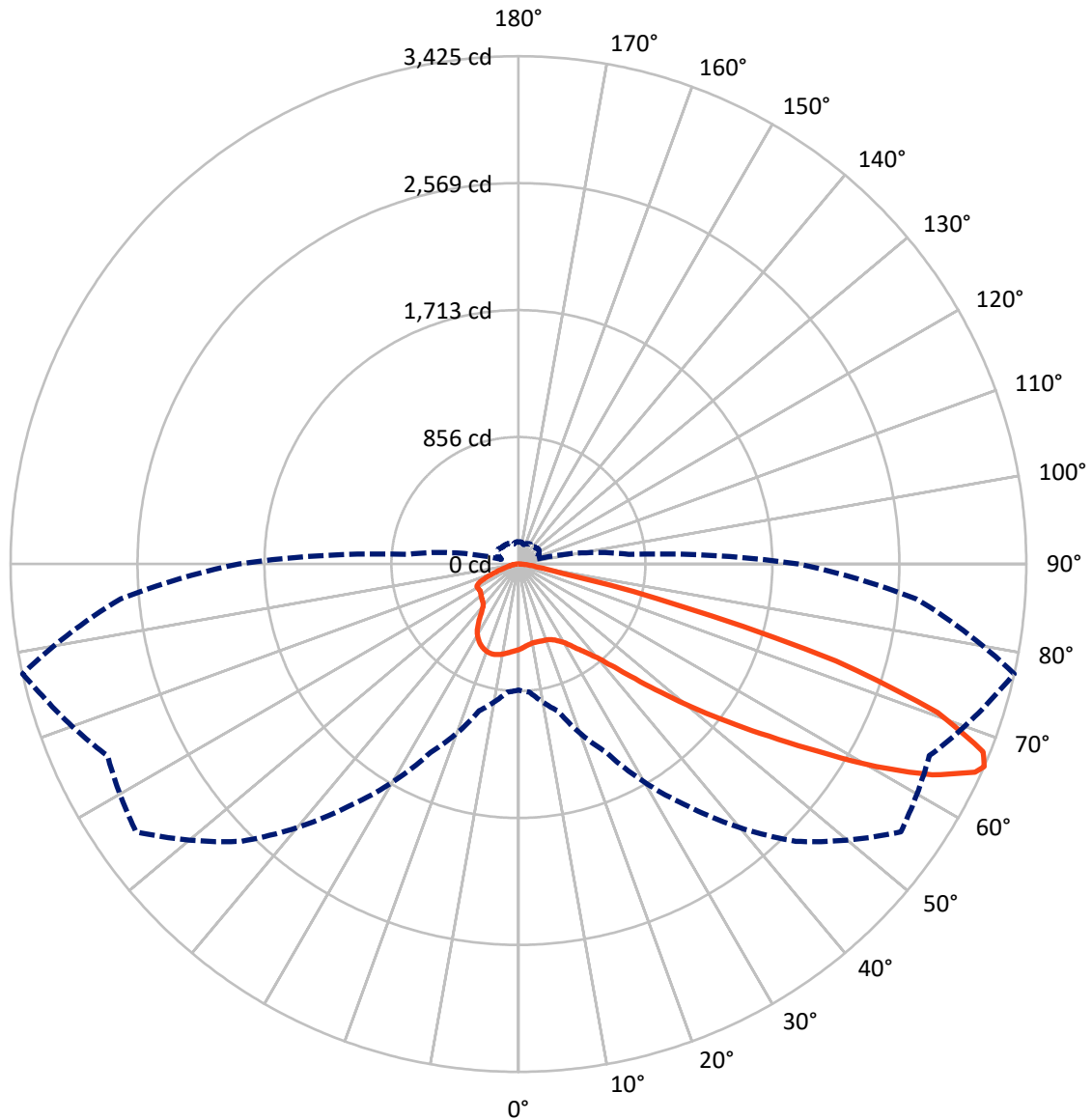
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	691.3	0.0	691.3
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	3354.9	0.0	3354.9
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	4046.2	0.0	4046.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	1.3
10°-20°	145.3	3.6
20°-30°	248.0	6.1
30°-40°	397.0	9.8
40°-50°	613.4	15.2
50°-60°	870.0	21.5
60°-70°	1163.8	28.8
70°-80°	505.4	12.5
80°-90°	51.5	1.3
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°	4046.2	100.0
0°-180°	4046.2	100.0



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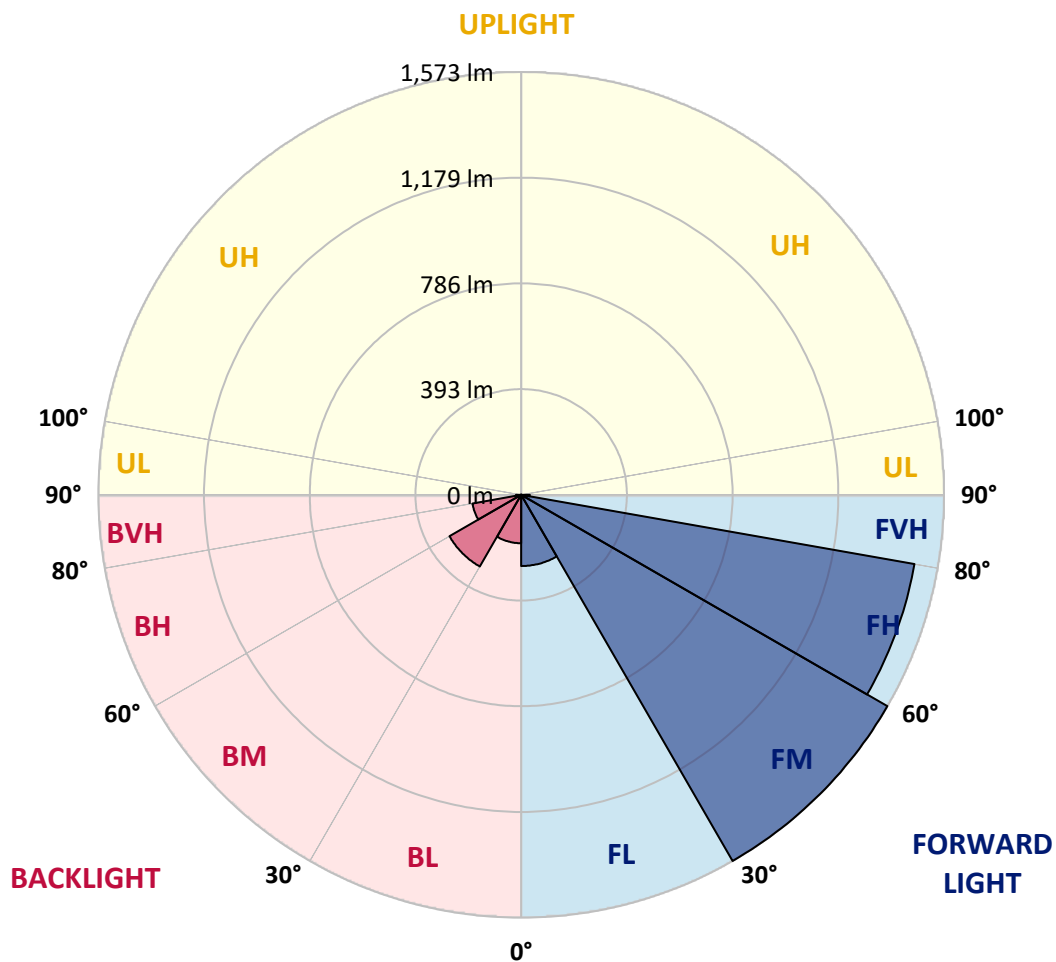
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.8	6.5			
FM	(30°-60°)	1572.6	38.9			
FH	(60°-80°)	1485.2	36.7			G1/1800
FVH	(80°-90°)	32.3	0.8			G1/100
BL	(0°-30°)	180.0	4.4	B1/500		
BM	(30°-60°)	307.9	7.6	B1/1000		
BH	(60°-80°)	184.1	4.5	B1/500		G1/500
BVH	(80°-90°)	19.2	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6
2.5°	510.1	513.5	516.4	519.1	524.4	533.2	543.3	551.5	563.4	565.7	572.0
5°	463.3	463.3	465.5	469.6	476.8	490.0	503.8	522.1	547.9	554.0	570.9
7.5°	440.5	440.7	442.0	445.4	451.7	463.8	478.9	500.5	535.5	545.6	574.3
10°	448.9	447.0	444.1	442.4	443.3	450.4	464.8	488.8	527.9	540.8	582.0
12.5°	495.9	492.3	482.4	469.2	456.5	451.4	459.8	483.3	524.6	539.7	592.1
15°	572.8	571.3	552.7	525.4	494.8	469.2	463.4	481.2	525.0	541.1	604.1
17.5°	669.2	667.0	642.6	602.8	552.9	503.0	476.2	482.9	526.3	543.3	615.8
20°	766.5	759.9	733.6	686.2	622.1	549.0	497.5	487.3	528.0	545.8	628.1
22.5°	839.1	833.7	810.0	764.0	690.2	602.4	525.9	495.0	533.6	553.1	643.1
25°	903.0	903.3	879.8	835.3	759.0	659.0	562.6	515.4	547.7	568.0	663.8
27.5°	981.9	977.3	955.3	911.2	827.1	716.2	607.0	543.5	568.8	589.2	690.9
30°	1076.3	1073.1	1047.7	997.6	902.5	777.5	657.6	576.2	595.9	617.1	726.5
32.5°	1187.4	1185.9	1159.5	1095.1	989.7	849.8	717.1	619.4	636.4	658.4	777.5
35°	1317.8	1318.0	1286.8	1209.4	1085.1	933.9	784.6	675.1	685.8	708.7	838.4
37.5°	1398.1	1407.8	1396.2	1317.2	1193.1	1028.0	872.2	748.9	742.0	765.1	903.5
40°	1415.3	1427.2	1464.0	1423.9	1314.0	1131.6	949.8	819.8	811.2	839.5	987.5
42.5°	1391.2	1407.7	1485.7	1513.9	1442.3	1259.3	1054.1	925.1	914.2	952.3	1091.8
45°	1376.9	1389.1	1479.4	1560.8	1553.5	1403.7	1187.1	1057.4	1053.4	1103.3	1212.3
47.5°	1352.0	1363.1	1449.9	1571.7	1618.9	1535.9	1346.7	1219.2	1227.0	1292.4	1348.2
50°	1365.4	1370.0	1417.0	1544.0	1637.9	1632.9	1525.0	1406.5	1433.3	1514.9	1502.1
52.5°	1363.5	1375.4	1413.2	1498.5	1640.4	1692.7	1700.7	1615.5	1671.9	1765.6	1672.8
55°	1102.4	1124.1	1368.3	1487.0	1649.1	1751.4	1857.1	1835.7	1940.8	2050.0	1865.5
57.5°	1052.6	1066.4	1201.8	1511.1	1695.7	1863.4	2031.1	2078.1	2254.0	2380.8	2100.3
60°	1042.9	1059.9	1200.0	1540.6	1790.4	2046.0	2289.0	2371.6	2635.1	2773.9	2372.5
62.5°	1012.5	1030.8	1188.7	1536.7	1924.8	2298.6	2619.2	2683.6	2996.4	3131.4	2600.3
65°	916.1	933.3	1096.8	1475.0	2015.4	2568.1	3009.9	2969.6	3281.6	3383.1	2713.8
66°	850.2	867.0	1024.3	1402.3	1994.4	2644.6	3148.4	3058.1	3345.5	3425.0	2691.6
67.5°	729.5	742.7	883.6	1239.6	1882.5	2666.0	3264.8	3124.6	3352.1	3380.3	2564.9
70°	460.9	464.8	574.3	855.7	1425.1	2312.1	3087.5	2959.5	3075.7	2999.6	2150.2
72.5°	200.0	198.7	275.7	435.3	806.8	1551.4	2497.6	2441.9	2412.7	2239.1	1505.2
75°	111.3	112.8	143.2	202.1	327.9	762.1	1633.8	1563.5	1320.1	1126.4	682.5
77.5°	89.3	91.4	118.7	143.4	147.2	265.8	764.5	622.1	374.5	300.5	189.6
80°	70.6	74.4	103.6	111.7	99.2	109.5	247.0	197.5	148.2	135.9	98.3
82.5°	55.8	58.5	88.9	84.5	69.4	73.8	118.3	115.3	96.4	87.8	56.8
85°	40.2	45.1	73.1	63.7	45.5	49.7	78.6	75.3	55.2	45.1	25.1
87.5°	16.4	21.4	51.6	42.3	25.4	23.2	39.2	36.9	26.2	19.1	12.4
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°	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6	576.6
2.5°	576.0	580.6	586.6	590.2	592.1	593.4	595.5	595.3	595.9	596.1	596.9
5°	579.8	587.5	596.1	598.4	598.4	596.3	594.2	590.7	589.4	589.0	589.4
7.5°	589.8	598.2	605.7	603.0	597.3	588.8	577.9	568.4	563.2	561.5	561.1
10°	602.4	612.5	615.6	605.5	588.6	568.4	546.8	531.1	522.1	519.6	518.9
12.5°	617.7	627.2	623.1	601.7	570.5	537.8	507.9	482.9	464.2	458.3	457.9
15°	634.5	642.0	627.2	589.8	543.3	495.1	442.0	398.8	375.5	368.0	367.5
17.5°	650.2	654.0	624.8	569.1	503.4	425.4	354.8	321.6	313.6	315.5	315.8
20°	663.6	663.6	616.4	539.5	440.5	333.4	288.8	288.3	294.1	299.8	300.9
22.5°	678.3	669.5	601.7	497.6	351.4	272.8	266.3	271.7	278.1	284.4	285.4
25°	696.5	674.3	581.2	434.2	276.2	247.7	250.2	254.6	257.9	261.9	262.5
27.5°	716.7	680.4	554.3	346.8	239.8	232.1	234.0	235.5	235.1	236.7	237.0
30°	741.0	687.5	517.3	271.1	224.7	218.7	215.3	213.9	213.9	216.4	217.4
32.5°	773.5	698.0	464.4	232.3	217.4	209.1	198.1	193.1	195.0	203.4	205.3
35°	809.3	709.3	392.7	219.1	215.9	204.7	187.5	178.3	178.6	186.4	188.9
37.5°	848.2	723.6	314.1	216.6	219.3	205.0	182.0	169.4	164.2	164.2	165.2
40°	898.1	738.3	254.3	218.3	226.6	207.2	179.2	162.3	147.8	148.2	148.9
42.5°	963.2	750.9	222.2	221.9	235.4	210.3	178.9	152.9	140.3	148.9	156.8
45°	1035.5	757.3	208.0	225.2	242.4	212.2	175.9	151.4	141.3	166.9	181.8
47.5°	1118.6	753.6	200.2	226.3	244.2	212.2	172.4	155.1	148.0	193.3	210.7
50°	1209.8	743.1	192.5	224.1	243.6	211.8	175.7	158.7	150.4	197.9	209.9
52.5°	1317.1	734.3	184.5	219.1	239.5	209.7	179.5	157.2	142.6	179.9	188.3
55°	1439.4	736.8	175.5	212.0	233.2	205.7	178.2	151.0	134.4	158.5	163.6
57.5°	1595.8	766.5	164.8	203.1	224.7	199.0	173.4	148.2	131.9	143.8	146.9
60°	1770.3	818.0	151.4	194.0	213.9	188.3	169.8	149.5	133.1	142.6	144.1
62.5°	1898.4	848.1	140.0	180.8	199.4	176.4	165.2	151.2	136.1	146.6	146.3
65°	1933.2	798.8	125.6	161.6	179.7	164.0	159.4	153.1	137.5	149.9	148.2
66°	1884.5	745.6	119.3	152.6	169.8	157.9	156.6	152.9	136.9	150.3	147.4
67.5°	1766.1	636.6	108.4	139.4	153.9	148.8	152.0	151.2	135.3	149.9	145.9
70°	1440.4	434.4	92.7	116.1	128.1	130.9	143.2	145.1	130.4	143.2	134.4
72.5°	1006.4	264.6	82.0	90.1	103.6	111.7	131.2	136.7	123.7	125.0	116.6
75°	486.4	140.5	74.4	69.8	80.5	93.3	116.6	125.2	113.2	104.6	101.5
77.5°	151.6	85.8	63.1	56.2	63.1	75.3	97.5	109.8	100.8	87.6	86.4
80°	81.4	63.1	48.6	45.1	49.9	59.1	76.6	91.6	86.6	78.6	70.2
82.5°	53.7	40.9	35.9	35.0	38.0	45.1	57.0	75.9	75.9	67.3	49.0
85°	27.7	25.1	24.7	24.7	26.6	30.0	38.8	58.5	62.3	35.5	29.5
87.5°	13.8	14.4	13.4	14.0	14.9	14.7	18.5	29.5	35.2	21.6	17.9
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)