

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: P299216

Luminaire Tested: **GLNA-AF-01-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3958.5 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 - 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

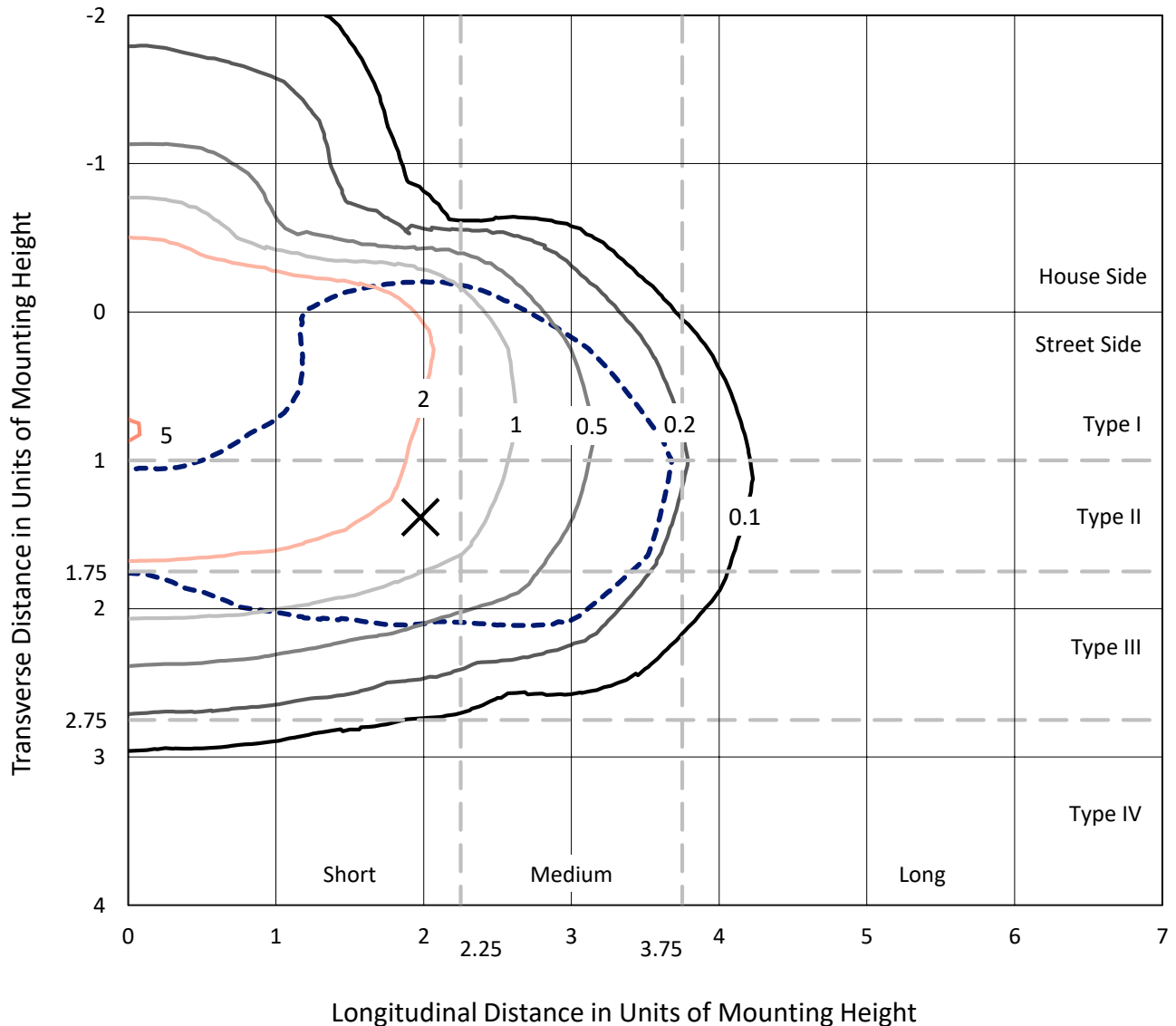


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### Iso-Footcandle Lines of Horizontal Illumination

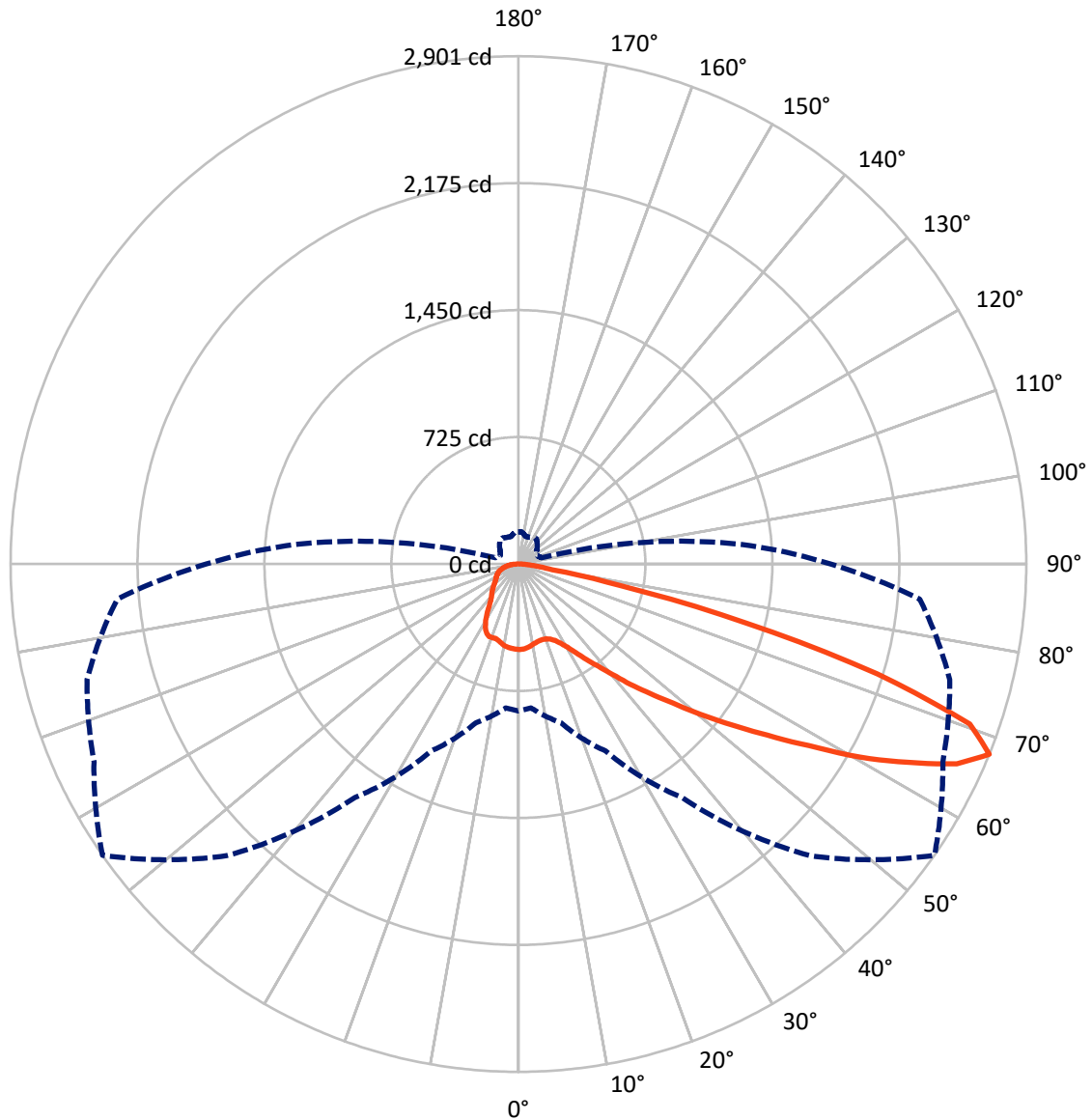
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	855.1	0.0	855.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	3103.4	0.0	3103.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	3958.5	0.0	3958.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.6	1.2
10°-20°	129.0	3.3
20°-30°	216.2	5.5
30°-40°	355.4	9.0
40°-50°	598.3	15.1
50°-60°	941.7	23.8
60°-70°	1123.8	28.4
70°-80°	482.6	12.2
80°-90°	65.8	1.7
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°	3958.5	100.0
0°-180°	3958.5	100.0



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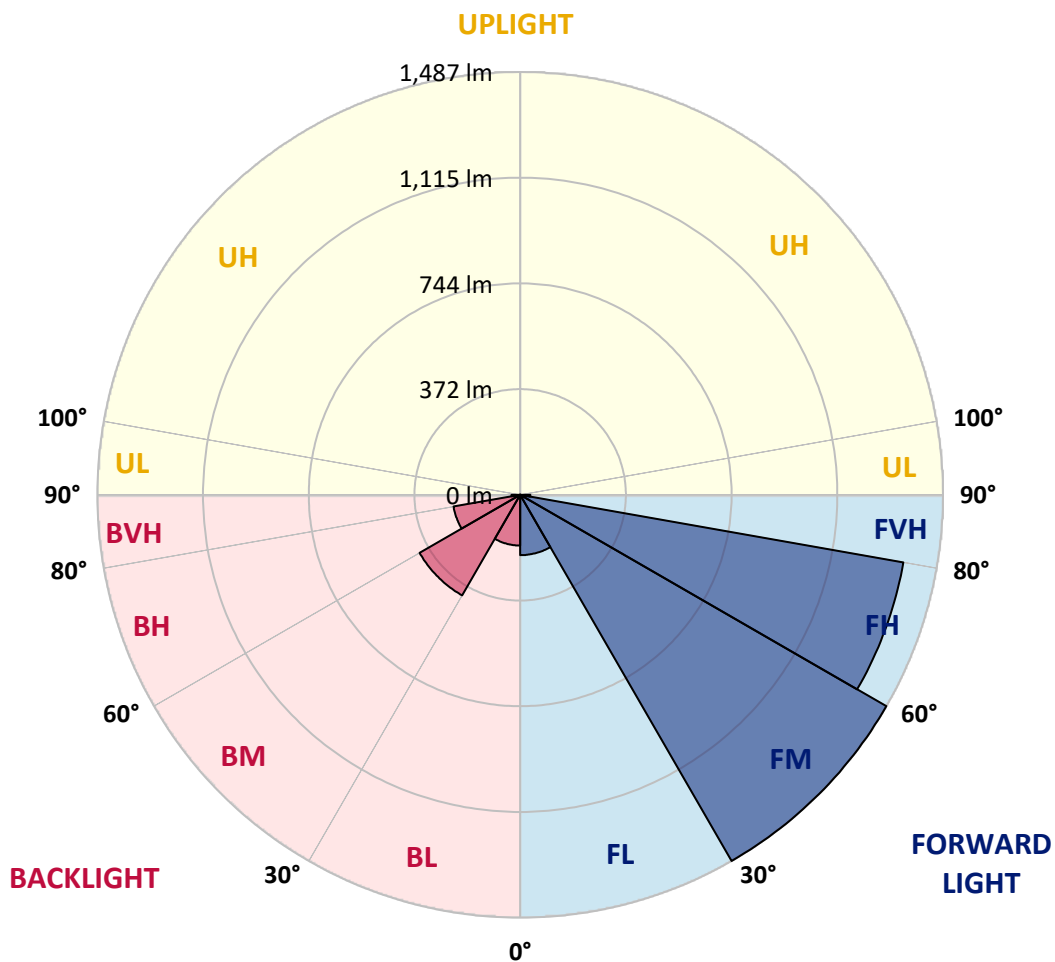
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.2	5.4			
FM	(30°-60°)	1487.1	37.6			
FH	(60°-80°)	1368.5	34.6			G1/1800
FVH	(80°-90°)	35.6	0.9			G1/100
BL	(0°-30°)	178.6	4.5	B1/500		
BM	(30°-60°)	408.4	10.3	B1/1000		
BH	(60°-80°)	238.0	6.0	B1/500		G1/500
BVH	(80°-90°)	30.2	0.8			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°	85°	90°
0°	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1
2.5°	483.9	484.1	484.5	486.0	487.4	487.0	487.2	486.4	486.2	485.1	486.2
5°	477.8	478.4	478.6	481.0	482.6	483.0	482.4	481.4	480.3	479.1	479.7
7.5°	463.8	465.4	465.6	469.0	471.5	474.7	474.9	475.1	474.5	473.8	474.9
10°	455.0	455.4	455.2	457.7	459.6	463.3	465.4	469.0	470.5	470.9	471.7
12.5°	454.5	454.1	453.5	453.5	452.9	454.5	458.3	463.5	467.1	468.2	469.2
15°	460.6	460.4	458.5	455.6	452.0	450.8	454.1	459.8	464.6	467.1	468.0
17.5°	474.4	473.2	470.2	463.6	455.8	452.8	453.1	457.9	463.5	466.7	467.7
20°	499.6	499.6	493.1	480.9	466.9	459.6	456.2	459.1	464.4	468.8	470.2
22.5°	543.2	543.6	532.7	512.6	489.1	473.6	465.0	464.4	470.7	475.7	477.2
25°	604.9	603.4	588.1	559.4	523.7	498.1	483.2	479.7	485.1	490.6	492.5
27.5°	676.8	671.3	653.1	618.5	572.2	534.8	511.8	506.3	511.4	517.8	519.7
30°	748.0	742.2	720.6	682.8	631.3	583.9	551.0	542.0	549.3	558.3	559.4
32.5°	819.1	819.1	795.0	750.8	694.8	642.6	603.2	592.5	604.6	615.5	617.9
35°	904.2	904.5	881.2	828.1	767.8	712.6	669.2	661.3	679.5	687.2	693.1
37.5°	1008.7	1010.9	980.8	916.6	850.6	792.5	740.9	730.2	748.3	769.2	788.3
40°	1121.7	1124.4	1091.3	1012.2	946.2	885.4	829.6	810.3	840.5	880.3	904.9
42.5°	1229.6	1243.3	1211.4	1130.0	1059.0	996.1	939.5	911.4	949.3	1009.3	1030.7
45°	1385.4	1395.3	1339.7	1265.9	1199.2	1128.8	1053.9	1024.2	1077.2	1152.9	1157.3
47.5°	1489.2	1481.8	1453.5	1407.6	1365.3	1299.6	1186.8	1154.2	1224.6	1313.7	1289.0
50°	1544.5	1546.8	1542.9	1545.6	1547.2	1505.9	1349.6	1305.1	1389.0	1496.7	1439.9
52.5°	1596.1	1580.8	1593.4	1656.1	1731.8	1716.6	1526.9	1480.4	1565.3	1699.7	1599.4
55°	1595.0	1571.6	1612.7	1723.4	1887.7	1905.3	1725.9	1672.4	1751.7	1917.5	1768.4
57.5°	1538.6	1539.7	1603.0	1747.9	1996.3	2082.7	1956.9	1876.6	1949.4	2138.1	1922.7
60°	1460.9	1471.4	1562.6	1743.9	2083.3	2228.2	2240.2	2096.7	2143.1	2338.7	2050.4
62.5°	1335.7	1346.8	1472.6	1702.2	2070.1	2368.3	2496.4	2346.4	2345.6	2460.3	2087.9
65°	1138.2	1134.9	1267.1	1546.4	1959.4	2472.0	2750.9	2562.2	2498.2	2462.2	2012.5
67.5°	839.3	824.8	938.2	1177.8	1628.6	2355.9	2900.6	2674.6	2550.2	2300.3	1782.3
70°	435.5	421.0	512.8	687.7	1071.1	1838.7	2734.9	2616.5	2435.3	1928.2	1396.3
72.5°	186.2	183.7	221.0	301.7	518.1	1060.6	2144.5	2264.7	2089.6	1436.6	960.0
75°	125.2	124.5	138.4	164.4	233.1	430.4	1342.0	1607.6	1528.8	890.8	539.9
77.5°	98.3	97.3	105.5	118.2	151.0	169.8	595.6	863.1	798.8	387.7	236.3
80°	76.9	76.1	81.3	88.1	108.6	107.1	196.0	343.4	265.8	148.6	114.9
82.5°	60.6	60.6	64.8	65.0	77.1	73.0	102.3	151.2	132.7	86.6	70.4
85°	55.4	55.4	59.8	48.6	50.3	46.1	63.5	89.7	84.1	35.6	30.6
87.5°	27.9	27.1	50.3	43.0	27.3	24.5	31.0	43.4	46.7	19.7	15.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1
2.5°	485.8	485.6	486.0	486.2	487.7	489.8	490.8	492.1	492.9	492.5
5°	480.1	480.5	482.0	483.2	485.8	489.3	491.2	492.7	494.0	493.5
7.5°	475.3	476.3	478.6	479.5	481.0	482.0	481.8	482.4	483.5	482.2
10°	472.6	473.8	475.5	474.2	470.5	465.4	460.6	458.1	458.9	457.9
12.5°	470.0	471.5	470.2	463.8	453.7	447.0	443.4	443.8	445.5	445.9
15°	468.4	469.0	463.3	451.4	441.1	440.1	442.0	441.7	441.9	441.9
17.5°	468.4	466.9	456.2	444.3	439.9	438.2	432.3	424.8	421.6	420.4
20°	470.9	466.9	453.9	446.1	436.5	421.8	406.1	392.3	386.2	384.5
22.5°	478.4	471.5	460.4	446.8	419.7	395.0	370.2	353.7	342.6	340.7
25°	493.5	485.8	473.2	436.7	392.9	357.7	329.4	311.1	300.0	298.5
27.5°	519.9	514.9	480.1	414.3	357.3	319.7	293.5	279.3	271.1	270.5
30°	559.6	557.1	476.7	381.2	313.6	282.8	270.2	261.9	255.8	255.6
32.5°	623.1	603.0	465.4	340.9	273.6	256.6	251.4	246.5	241.7	241.7
35°	704.7	640.1	444.0	297.7	249.3	242.1	235.6	227.7	221.4	221.0
37.5°	800.7	663.1	405.5	262.9	237.8	232.3	222.7	211.1	200.0	198.1
40°	897.7	669.9	351.4	241.5	230.6	222.6	210.9	197.1	186.4	185.8
42.5°	986.6	656.8	294.1	226.8	223.3	212.6	200.4	188.1	179.7	179.5
45°	1061.1	622.5	245.9	212.8	215.7	203.6	192.7	182.8	176.3	174.9
47.5°	1131.3	574.2	212.0	198.1	208.0	198.7	189.5	180.1	173.8	172.8
50°	1212.8	522.0	188.3	183.7	201.3	196.9	192.2	182.4	171.9	170.7
52.5°	1311.4	476.8	169.8	171.1	196.2	199.2	199.0	188.9	170.5	169.0
55°	1421.5	426.7	155.8	160.8	194.1	203.4	200.8	195.0	171.7	169.4
57.5°	1529.9	368.2	146.1	153.0	191.0	203.0	192.5	184.3	174.4	171.1
60°	1611.2	289.7	138.6	146.1	184.3	196.7	183.5	172.6	173.8	171.3
62.5°	1616.6	223.9	129.6	140.1	174.2	190.4	177.6	167.5	176.3	174.0
65°	1521.5	169.2	121.0	133.1	163.3	186.4	171.9	164.6	181.4	179.0
67.5°	1281.0	136.1	113.8	125.8	152.4	178.0	166.7	161.9	186.0	181.6
70°	924.8	116.1	106.7	117.0	142.6	168.4	162.1	157.2	173.6	166.7
72.5°	569.4	100.6	98.7	105.3	135.2	158.5	155.3	148.2	156.4	150.9
75°	284.3	87.2	89.7	93.9	124.7	147.2	143.8	136.7	137.9	136.7
77.5°	136.1	74.6	79.2	82.4	111.1	134.4	130.8	123.5	122.2	122.4
80°	86.2	62.3	66.7	69.0	99.2	119.5	115.9	108.6	123.9	114.9
82.5°	53.9	50.7	51.8	56.0	86.4	104.0	99.2	92.7	111.7	88.3
85°	29.8	35.4	36.9	40.5	66.5	87.0	82.2	74.0	66.3	65.2
87.5°	17.8	21.0	21.6	24.3	44.7	62.9	55.6	52.8	43.8	43.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)