

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: P298920

Luminaire Tested: **GLNA-AF-01-LED-E1-T2-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7060-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4924 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full 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

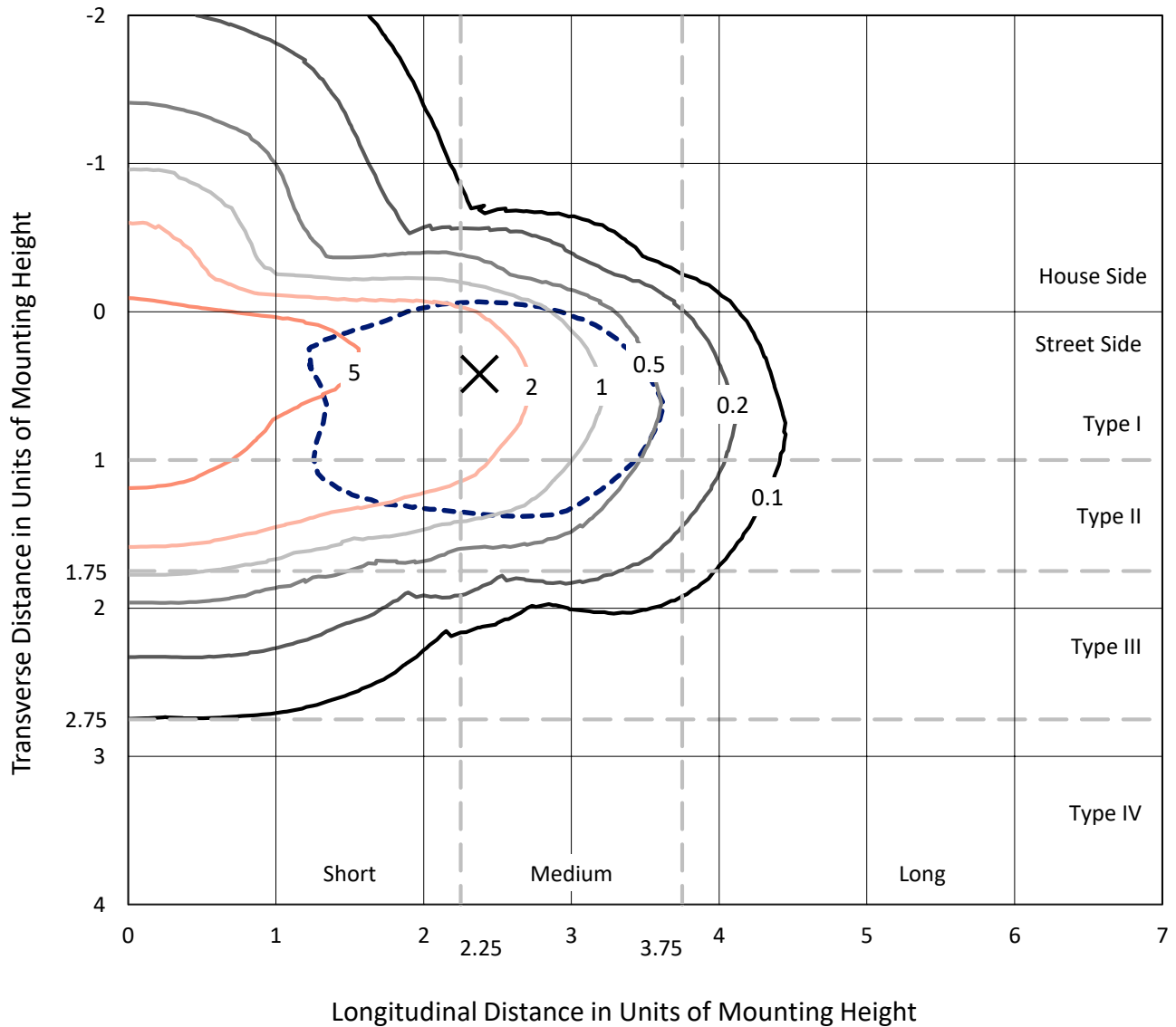


REPORT NUMBER: P298920

CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7060-800

### Iso-Footcandle Lines of Horizontal Illumination

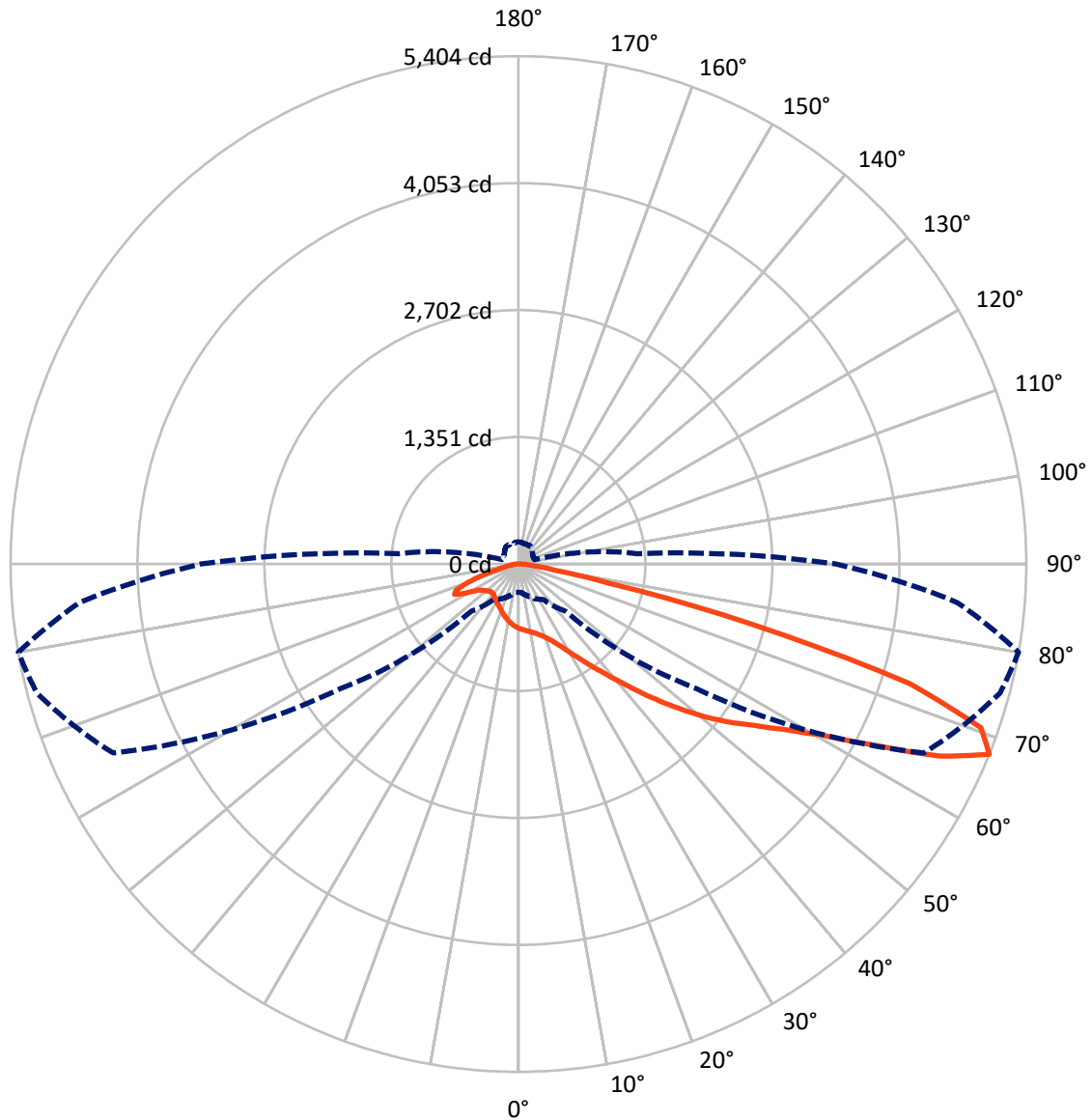
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P298920  
CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7060-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7060-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	906.8	0.0	906.8
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	4017.2	0.0	4017.2
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	4924.0	0.0	4924.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.1	1.3
10°-20°	181.8	3.7
20°-30°	300.9	6.1
30°-40°	492.2	10.0
40°-50°	794.7	16.1
50°-60°	1147.3	23.3
60°-70°	1266.1	25.7
70°-80°	583.6	11.9
80°-90°	94.4	1.9
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°	4924.0	100.0
0°-180°	4924.0	100.0



REPORT NUMBER: P298920

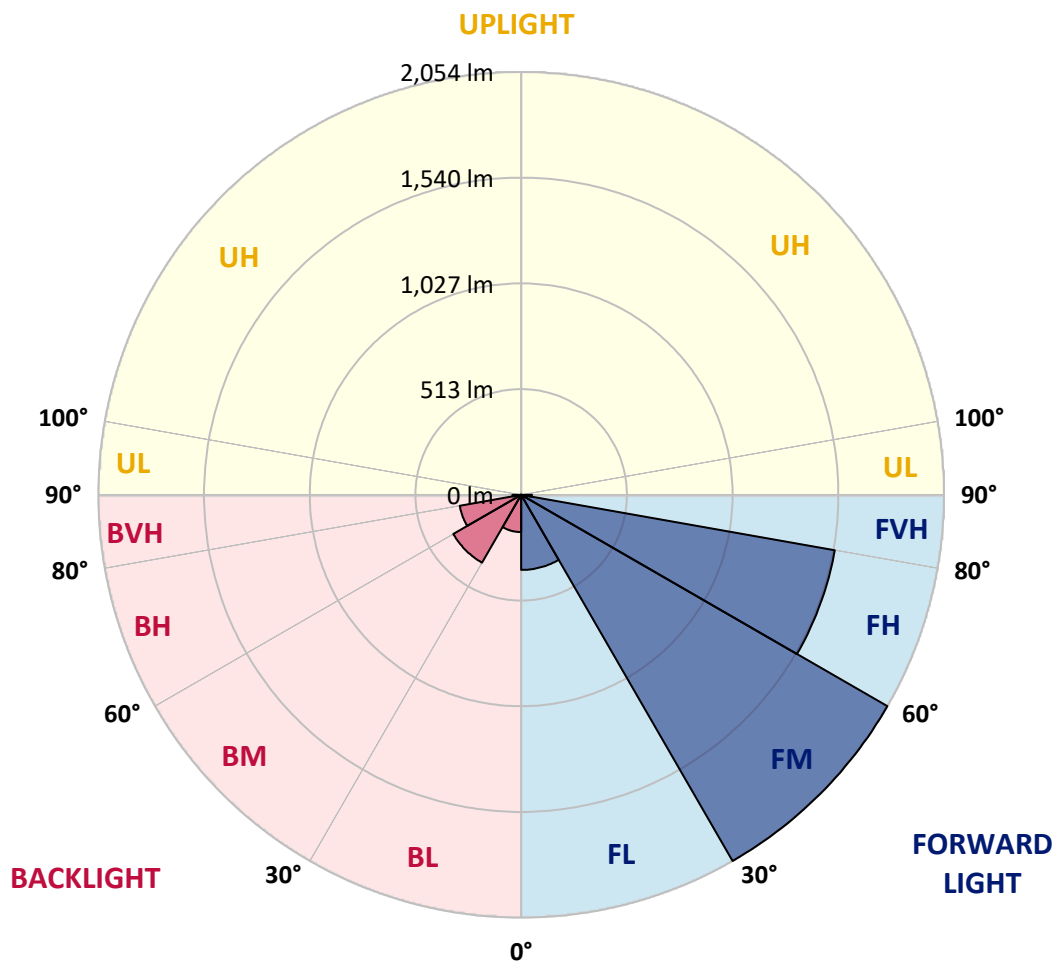
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.9	7.4			
FM	(30°-60°)	2053.7	41.7			
FH	(60°-80°)	1546.8	31.4			G1/1800
FVH	(80°-90°)	51.9	1.1			G1/100
BL	(0°-30°)	180.9	3.7	B1/500		
BM	(30°-60°)	380.5	7.7	B1/1000		
BH	(60°-80°)	302.9	6.2	B1/500		G1/500
BVH	(80°-90°)	42.5	0.9			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 Medium





REPORT NUMBER: P298920

CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7060-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1
2.5°	748.3	744.0	744.7	743.5	739.8	733.5	726.8	714.4	701.5	694.8	689.4
5°	810.9	809.7	808.0	804.1	794.9	781.8	765.5	743.7	720.2	707.8	696.0
7.5°	857.7	856.9	854.7	852.3	843.4	827.6	803.1	772.1	737.9	720.9	702.5
10°	861.5	862.7	864.4	871.0	872.2	863.7	838.7	801.2	756.3	734.5	711.0
12.5°	828.6	831.2	837.8	854.5	872.2	882.6	869.8	831.7	777.9	751.5	721.7
15°	784.9	786.4	794.4	817.4	849.2	881.4	893.5	865.4	805.8	773.3	737.7
17.5°	766.3	767.0	772.6	787.8	817.4	863.5	906.9	902.0	840.0	800.4	757.3
20°	756.8	758.5	766.5	781.5	800.2	840.4	908.8	941.5	880.7	834.4	782.0
22.5°	783.7	783.0	785.9	793.4	809.2	833.4	907.4	982.3	932.6	878.0	814.3
25°	846.5	849.2	844.1	835.6	840.7	857.7	915.1	1026.4	997.5	934.0	856.4
27.5°	936.0	933.3	925.8	905.9	895.5	902.7	940.8	1073.9	1078.3	1007.7	912.2
30°	1025.2	1023.0	1015.7	991.5	970.1	964.1	990.7	1128.4	1174.5	1096.2	980.6
32.5°	1117.8	1115.3	1108.6	1084.3	1058.6	1044.6	1061.8	1191.5	1287.9	1201.9	1061.0
35°	1231.9	1227.3	1213.0	1179.3	1154.1	1143.2	1151.2	1270.7	1418.8	1327.0	1158.7
37.5°	1339.3	1346.4	1331.8	1285.3	1252.5	1248.7	1257.6	1367.4	1559.9	1466.8	1271.0
40°	1447.2	1448.4	1435.3	1397.3	1363.6	1357.3	1379.8	1484.8	1726.5	1634.1	1407.4
42.5°	1558.7	1561.1	1539.1	1503.9	1479.2	1480.4	1506.1	1622.2	1917.5	1831.2	1564.5
45°	1690.8	1694.5	1670.2	1624.2	1601.6	1647.0	1636.3	1776.4	2126.9	2055.2	1744.9
47.5°	1829.0	1834.6	1816.2	1773.0	1744.9	1807.2	1766.5	1947.3	2352.4	2295.4	1942.9
50°	1904.4	1912.4	1930.3	1927.2	1921.1	1910.7	1911.7	2130.6	2584.8	2545.6	2146.6
52.5°	1863.9	1863.7	1929.1	2008.6	2093.5	2099.8	2088.6	2323.8	2802.0	2790.2	2338.3
55°	1678.7	1691.3	1790.5	1944.4	2176.1	2320.9	2353.8	2545.1	3015.4	3029.2	2533.0
57.5°	1370.4	1380.8	1514.6	1729.1	2064.6	2452.2	2731.0	2866.8	3253.9	3318.4	2792.1
60°	929.4	942.0	1083.8	1341.5	1764.5	2379.0	3090.0	3440.8	3539.5	3686.1	3155.7
62.5°	546.2	557.5	673.2	846.3	1242.4	2038.9	3247.6	4257.5	3993.0	4241.0	3710.4
65°	376.0	383.7	440.0	526.8	713.9	1373.3	3052.2	4821.3	4690.9	4928.5	4353.5
67.5°	302.5	301.6	346.2	405.3	459.6	708.1	2308.0	4757.6	5304.7	5403.9	4687.3
70°	249.2	248.2	278.5	327.5	367.3	398.8	1257.2	4014.8	5179.6	5219.9	4379.9
72.5°	208.5	209.4	228.8	265.2	301.3	300.3	552.5	2824.4	4074.7	4353.0	3491.5
75°	176.0	176.5	189.3	215.0	244.6	241.9	299.6	1530.1	2368.6	2562.3	1935.4
77.5°	149.8	150.3	158.5	172.8	193.9	193.0	218.7	661.1	988.1	976.0	662.0
80°	133.6	133.6	137.4	140.1	151.8	147.4	162.2	317.6	417.7	385.7	264.2
82.5°	104.7	105.2	129.0	128.0	119.5	113.9	113.9	187.1	221.3	204.6	154.7
85°	58.9	58.7	83.1	100.4	105.2	80.2	79.5	104.7	120.5	106.2	74.9
87.5°	25.2	25.7	38.5	44.6	59.6	49.9	49.2	54.1	61.3	53.1	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P298920

CATALOG NUMBER: GLNA-AF-01-LED-E1-T2-7060-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1	684.1
2.5°	684.3	678.0	664.2	647.0	631.5	621.3	612.1	598.8	599.5	590.3	583.5
5°	683.8	670.8	638.8	600.7	564.1	537.7	517.8	499.9	495.5	487.0	481.9
7.5°	684.3	663.0	609.2	548.3	503.0	469.6	452.6	443.1	440.9	438.0	438.3
10°	686.0	656.0	576.7	499.4	451.9	429.8	425.7	428.6	432.0	432.9	433.2
12.5°	689.9	649.7	541.1	455.7	419.9	413.1	420.1	430.0	436.6	439.7	439.5
15°	698.6	644.8	506.9	421.6	402.2	405.8	418.9	432.9	442.4	446.8	447.0
17.5°	708.1	637.8	471.7	395.4	389.1	398.3	414.5	431.0	442.6	447.5	448.5
20°	720.5	629.1	434.9	375.7	376.7	387.1	402.4	418.9	431.7	435.9	437.8
22.5°	736.7	619.6	402.6	359.7	362.6	370.6	382.5	396.8	408.0	409.9	411.6
25°	758.5	609.4	377.0	345.2	346.4	351.0	359.0	367.5	375.3	373.1	374.8
27.5°	787.8	600.7	357.8	331.9	329.7	330.7	334.8	337.4	341.6	335.5	336.2
30°	822.3	591.2	343.0	320.2	314.2	312.5	313.4	314.9	318.0	309.8	308.6
32.5°	862.3	579.9	329.2	310.0	301.6	298.2	298.7	302.5	314.7	309.6	306.9
35°	908.8	567.0	314.7	298.9	293.1	288.2	287.7	299.9	336.0	332.8	330.4
37.5°	963.3	554.2	300.1	286.3	286.8	281.4	279.7	293.6	340.1	327.7	326.0
40°	1032.7	547.4	287.7	273.0	279.0	278.3	274.9	281.9	313.0	290.4	287.5
42.5°	1118.5	548.3	278.5	258.7	269.8	277.6	272.2	272.5	283.6	266.7	264.0
45°	1224.4	559.7	272.0	247.3	259.4	276.8	271.3	267.4	268.4	259.4	257.9
47.5°	1348.1	583.2	267.4	237.8	249.4	274.2	271.0	265.9	263.7	258.9	257.7
50°	1485.5	617.4	264.0	228.8	240.5	269.8	271.3	264.5	262.0	260.1	259.4
52.5°	1620.5	656.5	258.9	221.1	233.4	264.5	272.0	263.0	260.4	258.9	258.2
55°	1771.1	705.2	251.1	214.5	227.6	257.7	272.0	260.8	257.9	258.2	257.9
57.5°	1974.5	784.0	241.9	209.0	220.6	249.4	267.4	258.4	254.8	255.0	255.3
60°	2292.3	922.9	230.8	203.4	211.9	239.7	261.1	253.1	249.4	250.4	250.7
62.5°	2759.6	1126.7	216.2	195.1	202.7	229.3	252.4	246.3	242.7	245.1	245.1
65°	3245.4	1306.6	198.3	184.7	193.0	217.9	241.4	237.8	234.2	239.7	239.5
67.5°	3376.1	1266.4	180.4	173.3	183.3	205.3	228.4	226.4	224.5	234.2	233.7
70°	2999.1	1016.7	163.9	161.7	172.6	191.7	214.3	214.3	213.1	220.4	218.7
72.5°	2285.0	720.9	148.1	149.3	160.5	177.0	199.0	200.7	198.8	202.4	201.0
75°	1223.2	412.6	132.4	135.8	145.4	161.9	182.1	183.7	182.5	182.3	183.0
77.5°	406.5	201.7	115.9	121.2	129.7	146.4	164.4	167.0	164.1	163.6	163.4
80°	181.1	126.8	97.7	104.7	112.2	128.7	145.7	147.9	144.7	149.1	143.5
82.5°	116.4	83.4	78.3	86.1	93.3	111.0	127.0	127.5	124.6	144.7	123.4
85°	56.5	51.6	58.9	65.9	72.2	87.3	105.2	105.4	98.2	89.5	86.3
87.5°	28.1	30.1	39.3	45.6	48.7	59.9	76.6	75.1	72.0	65.5	60.4
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)