

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: P298862

Luminaire Tested: **GLNA-AF-02-LED-E1-T2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298862  
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-02-LED-E1-T2-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11520.2 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

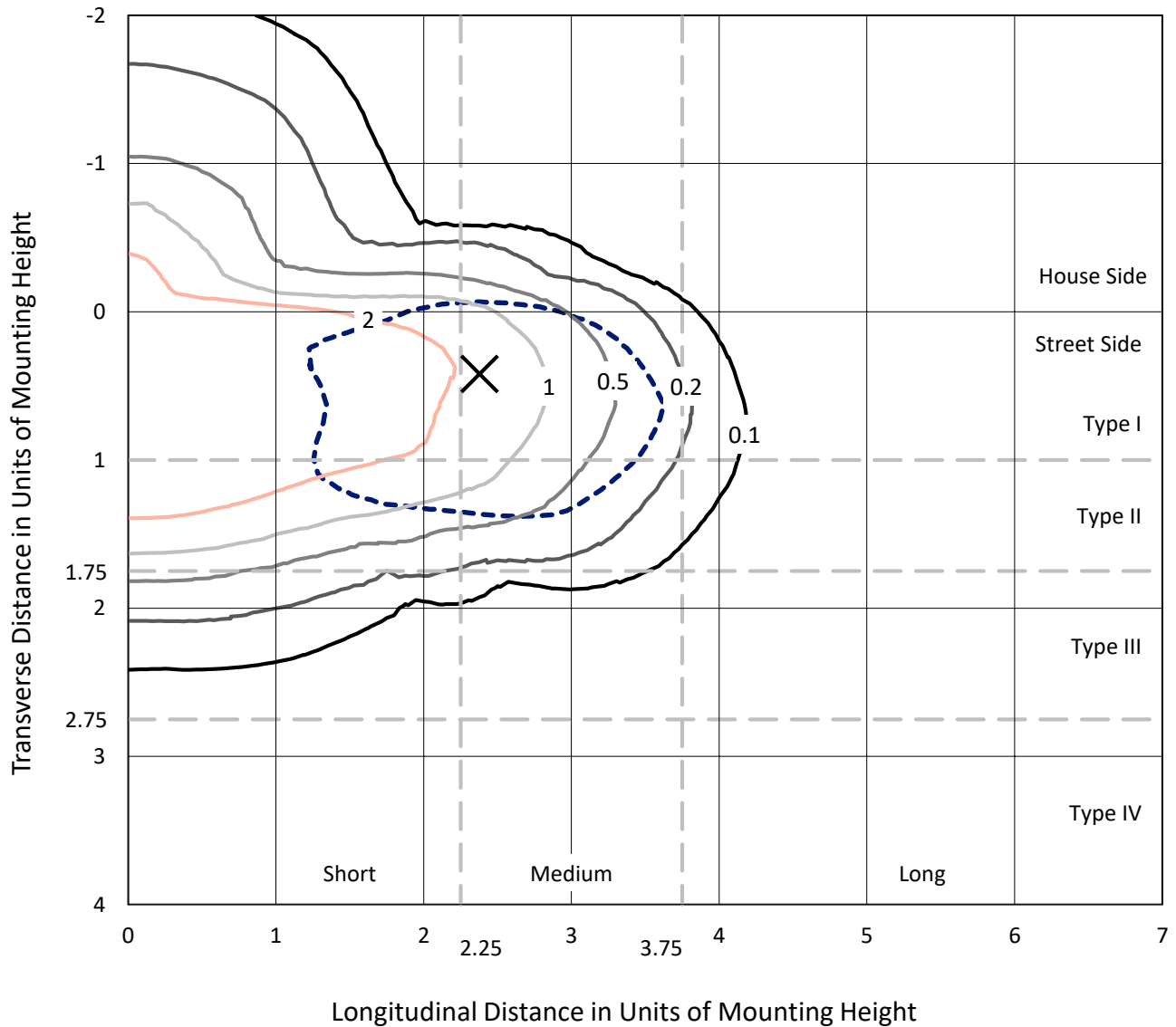
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

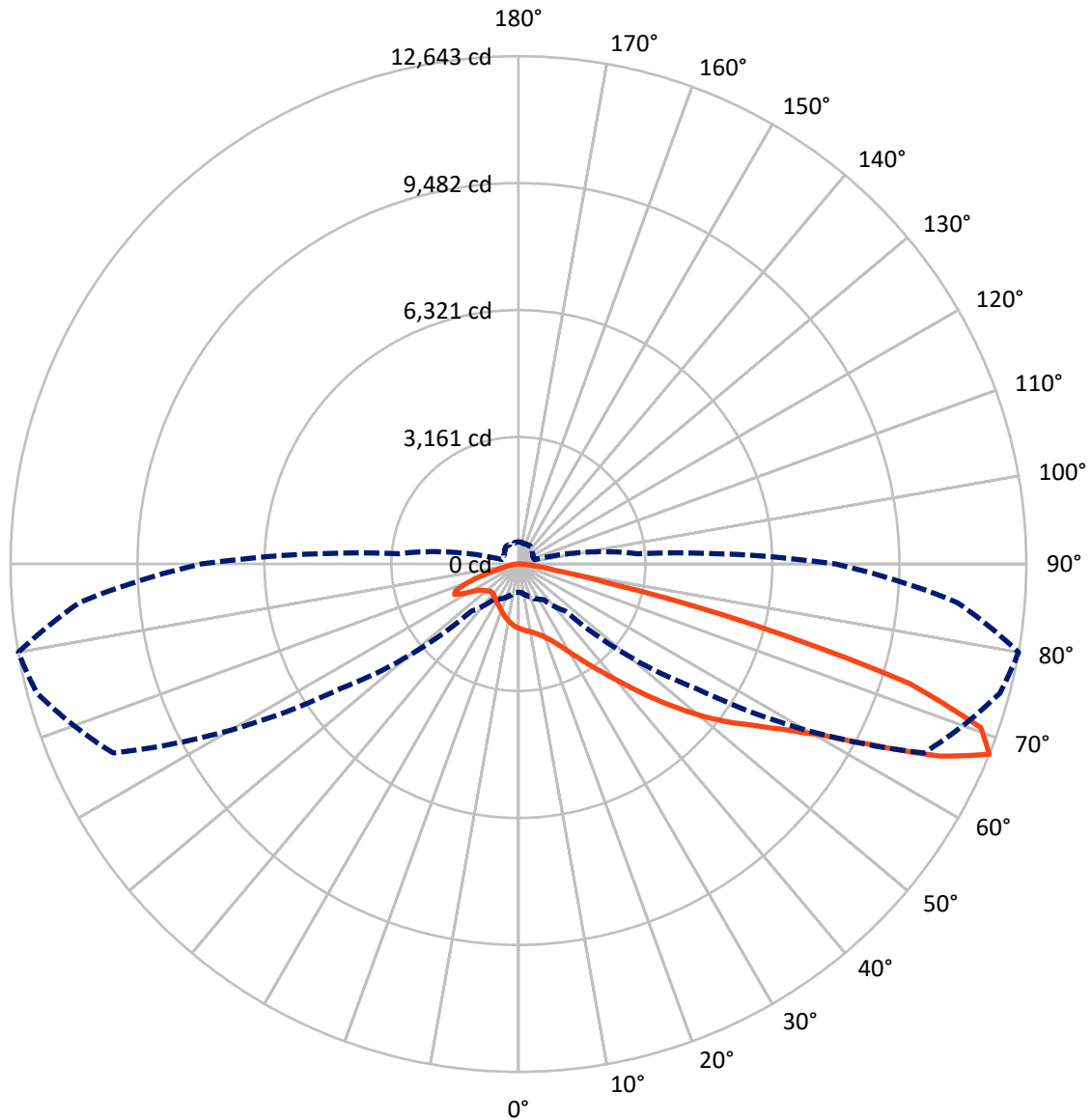
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2121.6	0.0	2121.6
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	9398.6	0.0	9398.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	11520.2	0.0	11520.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	1.3
10°-20°	425.3	3.7
20°-30°	704.0	6.1
30°-40°	1151.5	10.0
40°-50°	1859.2	16.1
50°-60°	2684.2	23.3
60°-70°	2962.2	25.7
70°-80°	1365.4	11.9
80°-90°	220.8	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°	11520.2	100.0
0°-180°	11520.2	100.0



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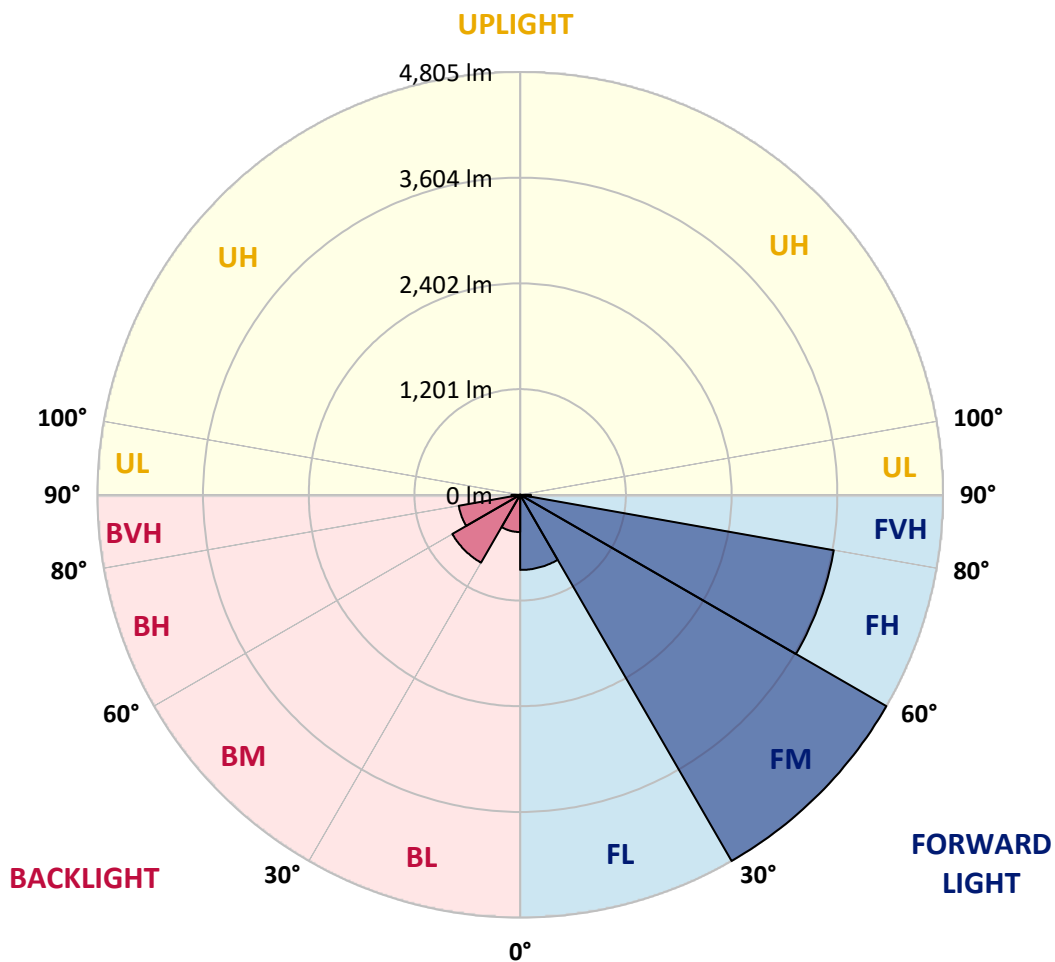
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.6	7.4			
FM (30°-60°)	4804.8	41.7			
FH (60°-80°)	3618.8	31.4			G2/5000
FVH (80°-90°)	121.4	1.1			G2/225
BL (0°-30°)	423.3	3.7	B1/500		
BM (30°-60°)	890.1	7.7	B1/1000		
BH (60°-80°)	708.7	6.2	B2/1000		G2/1000
BVH (80°-90°)	99.4	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5
2.5°	1750.8	1740.6	1742.3	1739.4	1730.9	1716.2	1700.3	1671.4	1641.3	1625.4	1613.0
5°	1897.1	1894.3	1890.3	1881.2	1859.7	1829.1	1791.1	1740.0	1685.0	1656.1	1628.3
7.5°	2006.6	2004.9	1999.8	1994.1	1973.1	1936.2	1879.0	1806.4	1726.4	1686.7	1643.6
10°	2015.6	2018.5	2022.5	2037.8	2040.6	2020.7	1962.3	1874.4	1769.5	1718.5	1663.4
12.5°	1938.5	1944.8	1960.1	1999.2	2040.6	2065.0	2034.9	1945.9	1820.0	1758.2	1688.4
15°	1836.4	1839.8	1858.5	1912.4	1986.7	2062.2	2090.5	2024.7	1885.2	1809.2	1725.8
17.5°	1792.8	1794.5	1807.5	1843.2	1912.4	2020.2	2121.7	2110.4	1965.2	1872.7	1771.8
20°	1770.6	1774.6	1793.3	1828.5	1872.2	1966.3	2126.2	2202.8	2060.4	1952.1	1829.6
22.5°	1833.6	1831.9	1838.7	1856.3	1893.1	1949.9	2122.8	2298.1	2181.8	2054.2	1905.1
25°	1980.5	1986.7	1974.8	1955.0	1966.9	2006.6	2141.0	2401.3	2333.8	2185.2	2003.7
27.5°	2189.8	2183.5	2165.9	2119.4	2095.0	2112.1	2201.1	2512.5	2522.7	2357.6	2134.2
30°	2398.5	2393.4	2376.4	2319.6	2269.7	2255.5	2317.9	2640.1	2747.8	2564.6	2294.1
32.5°	2615.1	2609.4	2593.6	2536.9	2476.7	2443.8	2484.1	2787.5	3013.3	2811.9	2482.4
35°	2882.2	2871.5	2838.0	2759.2	2700.2	2674.7	2693.4	2973.0	3319.5	3104.6	2711.0
37.5°	3133.5	3149.9	3115.9	3007.0	2930.5	2921.4	2942.4	3199.3	3649.6	3431.8	2973.6
40°	3385.9	3388.7	3358.1	3269.0	3190.2	3175.5	3228.2	3473.8	4039.2	3823.1	3292.9
42.5°	3646.8	3652.4	3600.8	3518.6	3460.7	3463.6	3523.7	3795.4	4486.1	4284.2	3660.4
45°	3955.9	3964.4	3907.7	3799.9	3747.1	3853.2	3828.3	4156.1	4976.2	4808.3	4082.3
47.5°	4279.1	4292.2	4249.1	4148.1	4082.3	4228.1	4132.8	4555.9	5503.6	5370.3	4545.7
50°	4455.5	4474.2	4516.2	4508.8	4494.7	4470.3	4472.5	4984.7	6047.5	5955.6	5022.1
52.5°	4360.8	4360.2	4513.4	4699.4	4897.9	4912.6	4886.5	5436.7	6555.7	6527.9	5470.7
55°	3927.5	3957.0	4189.0	4549.1	5091.3	5429.9	5507.0	5954.5	7054.8	7087.1	5926.1
57.5°	3206.1	3230.5	3543.5	4045.5	4830.4	5737.3	6389.5	6707.1	7612.8	7763.7	6532.4
60°	2174.4	2203.9	2535.7	3138.6	4128.3	5566.0	7229.4	8050.1	8280.9	8624.1	7383.1
62.5°	1277.8	1304.4	1575.0	1979.9	2906.6	4770.3	7598.1	9960.8	9342.1	9922.3	8680.8
65°	879.6	897.8	1029.4	1232.4	1670.3	3212.9	7141.0	11280.0	10974.9	11530.7	10185.4
67.5°	707.8	705.5	809.9	948.3	1075.3	1656.6	5399.8	11130.9	12410.9	12642.9	10966.4
70°	583.0	580.8	651.7	766.2	859.2	933.0	2941.2	9393.1	12118.3	12212.4	10247.2
72.5°	487.7	490.0	535.4	620.5	705.0	702.7	1292.5	6607.8	9533.2	10184.3	8168.6
75°	411.7	412.9	442.9	503.1	572.3	566.0	701.0	3579.8	5541.6	5994.8	4528.1
77.5°	350.5	351.6	370.9	404.4	453.7	451.5	511.6	1546.6	2311.7	2283.3	1548.9
80°	312.5	312.5	321.6	327.8	355.0	344.8	379.4	743.0	977.2	902.3	618.2
82.5°	245.0	246.1	301.7	299.5	279.6	266.6	266.6	437.8	517.8	478.7	361.8
85°	137.8	137.2	194.5	234.8	246.1	187.7	186.0	245.0	281.9	248.4	175.2
87.5°	59.0	60.1	90.2	104.4	139.5	116.8	115.1	126.5	143.5	124.2	81.1
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°	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5	1600.5
2.5°	1601.1	1586.3	1554.0	1513.7	1477.4	1453.6	1432.0	1400.9	1402.6	1381.0	1365.1
5°	1599.9	1569.3	1494.4	1405.4	1319.8	1257.9	1211.4	1169.5	1159.3	1139.4	1127.5
7.5°	1601.1	1551.2	1425.2	1282.9	1176.8	1098.6	1058.9	1036.7	1031.6	1024.8	1025.4
10°	1605.0	1534.7	1349.2	1168.3	1057.2	1005.6	995.9	1002.7	1010.7	1012.9	1013.5
12.5°	1614.1	1520.0	1265.9	1066.2	982.3	966.4	982.9	1006.1	1021.4	1028.8	1028.2
15°	1634.5	1508.6	1185.9	986.3	940.9	949.4	980.0	1012.9	1035.0	1045.3	1045.8
17.5°	1656.6	1492.2	1103.7	925.0	910.3	931.8	969.8	1008.4	1035.6	1047.0	1049.2
20°	1685.6	1471.7	1017.5	879.1	881.3	905.7	941.5	980.0	1010.1	1019.7	1024.3
22.5°	1723.6	1449.6	942.0	841.6	848.5	867.2	895.0	928.4	954.5	959.0	963.0
25°	1774.6	1425.8	881.9	807.6	810.5	821.2	839.9	859.8	877.9	872.8	876.8
27.5°	1843.2	1405.4	837.1	776.4	771.3	773.6	783.2	789.5	799.1	784.9	786.6
30°	1923.8	1383.3	802.5	749.2	735.0	731.1	733.3	736.7	744.1	724.8	722.0
32.5°	2017.3	1356.6	770.2	725.4	705.5	697.6	698.7	707.8	736.2	724.2	718.0
35°	2126.2	1326.6	736.2	699.3	685.7	674.3	673.2	701.6	786.1	778.7	773.0
37.5°	2253.8	1296.5	702.1	669.8	670.9	658.5	654.5	686.8	795.7	766.8	762.8
40°	2416.1	1280.6	673.2	638.6	652.8	651.1	643.1	659.6	732.2	679.4	672.6
42.5°	2616.8	1282.9	651.7	605.1	631.2	649.4	636.9	637.5	663.6	623.9	617.6
45°	2864.7	1309.5	636.3	578.5	606.8	647.7	634.6	625.6	627.8	606.8	603.4
47.5°	3153.9	1364.6	625.6	556.4	583.6	641.4	634.1	622.2	617.1	605.7	602.9
50°	3475.5	1444.5	617.6	535.4	562.6	631.2	634.6	618.8	613.1	608.6	606.8
52.5°	3791.4	1535.8	605.7	517.2	546.2	618.8	636.3	615.4	609.1	605.7	604.0
55°	4143.6	1649.8	587.6	501.9	532.6	602.9	636.3	610.3	603.4	604.0	603.4
57.5°	4619.4	1834.2	566.0	488.9	516.1	583.6	625.6	604.6	596.1	596.6	597.2
60°	5363.0	2159.1	539.9	475.8	495.7	560.9	610.8	592.1	583.6	585.9	586.4
62.5°	6456.4	2636.1	505.9	456.6	474.1	536.5	590.4	576.2	567.7	573.4	573.4
65°	7593.0	3056.9	463.9	432.2	451.5	509.9	564.9	556.4	547.9	560.9	560.3
67.5°	7898.7	2962.8	422.0	405.5	428.8	480.4	534.3	529.7	525.2	547.9	546.7
70°	7016.8	2378.6	383.4	378.3	403.8	448.6	501.4	501.4	498.5	515.5	511.6
72.5°	5345.9	1686.7	346.5	349.4	375.5	414.0	465.6	469.6	465.1	473.6	470.2
75°	2861.8	965.3	309.7	317.6	340.3	378.9	425.9	429.9	427.1	426.5	428.2
77.5°	951.1	471.9	271.1	283.6	303.4	342.6	384.5	390.8	384.0	382.8	382.3
80°	423.7	296.6	228.6	245.0	262.6	301.2	340.9	346.0	338.6	348.8	335.8
82.5°	272.2	195.1	183.2	201.3	218.4	259.8	297.2	298.3	291.5	338.6	288.7
85°	132.1	120.8	137.8	154.3	169.0	204.2	246.1	246.7	229.7	209.3	201.9
87.5°	65.8	70.3	91.9	106.6	114.0	140.1	179.2	175.8	168.4	153.1	141.2
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)