

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: P200654

Luminaire Tested: **GPC-AF-02-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200654  
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: GPC-AF-02-LED-E1-T2-8030-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8037 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G2

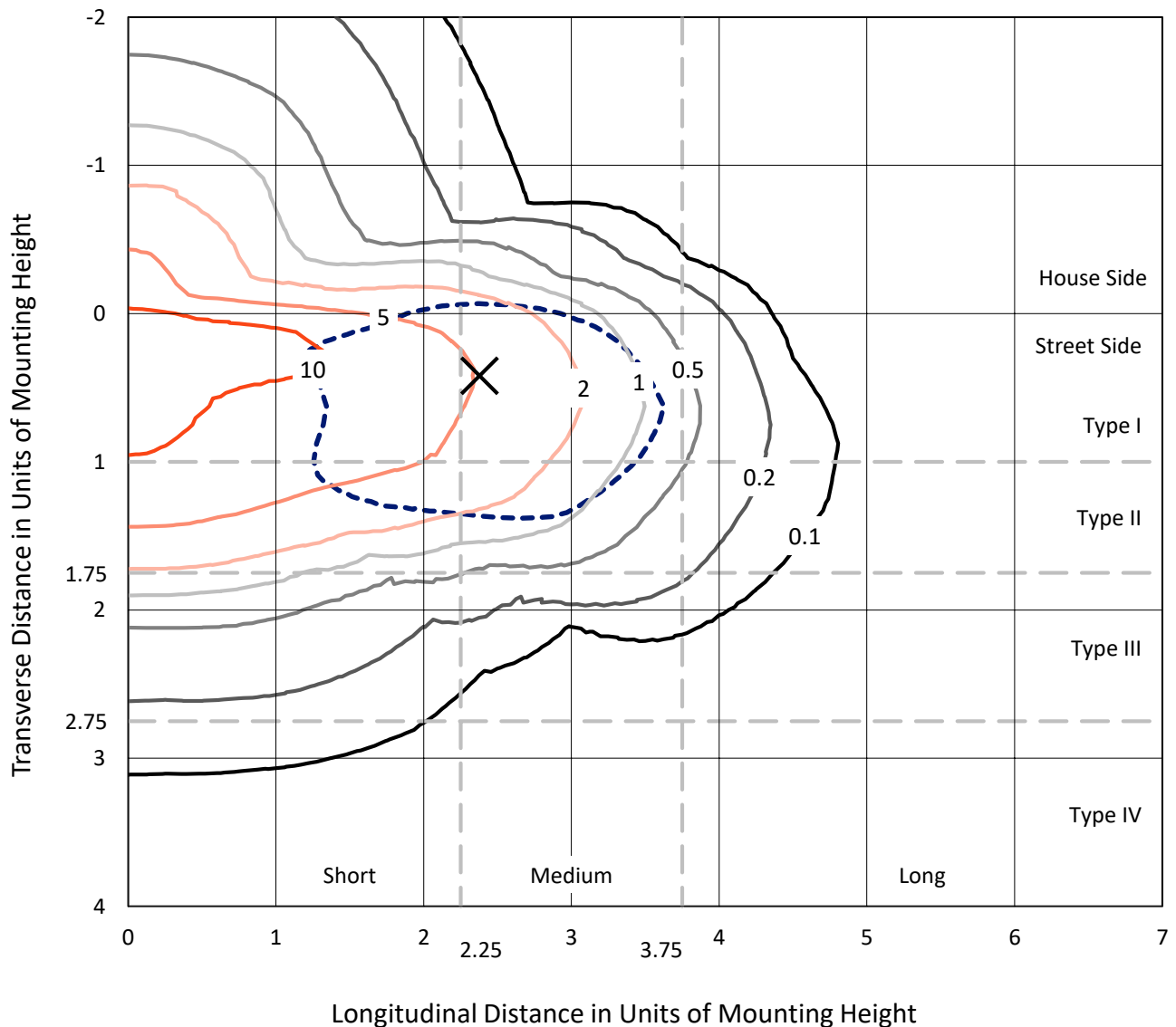
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

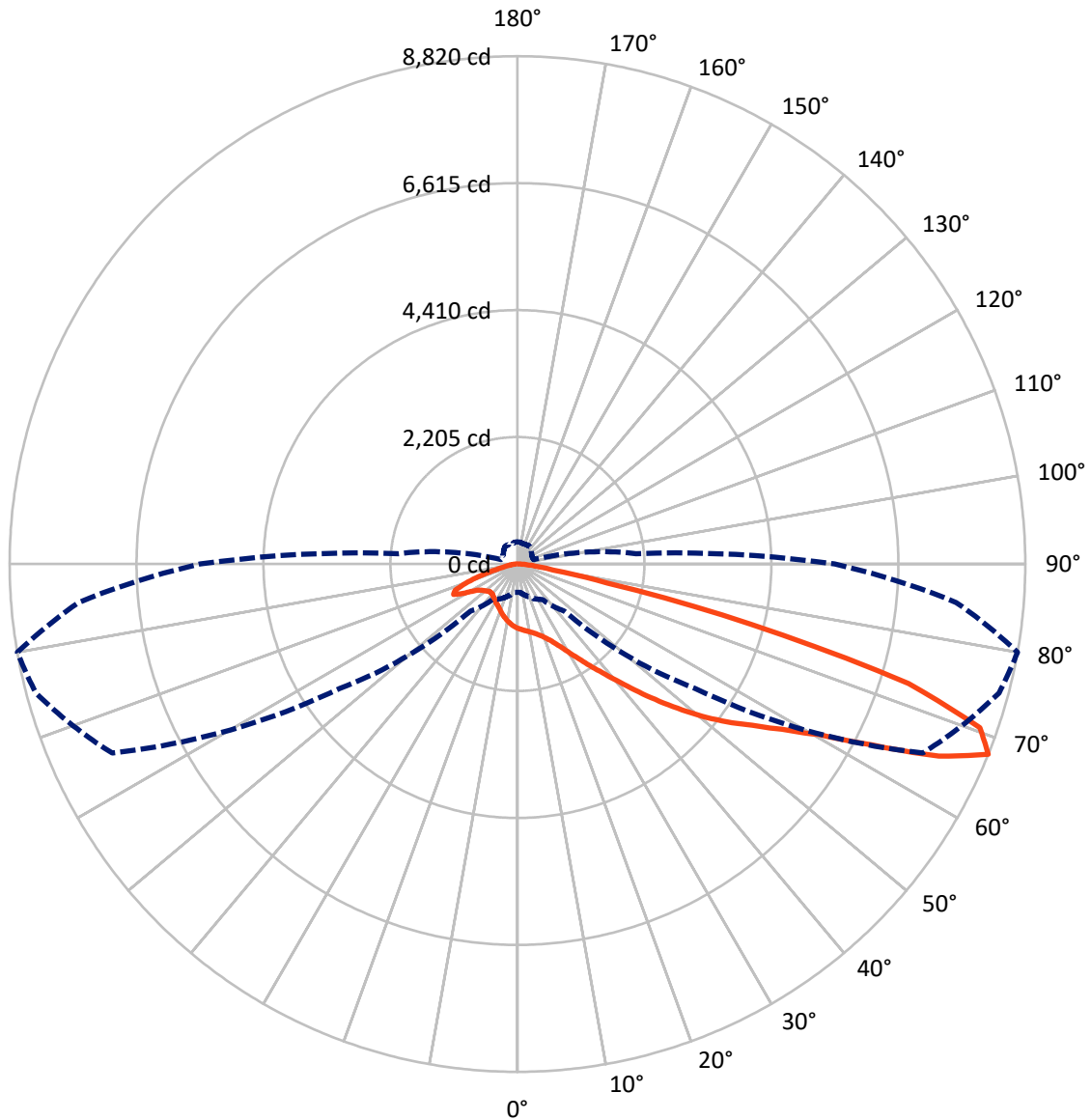
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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	1480.1	0.0	1480.1
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	6556.9	0.0	6556.9
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	8037.0	0.0	8037.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	1.3
10°-20°	296.7	3.7
20°-30°	491.1	6.1
30°-40°	803.3	10.0
40°-50°	1297.1	16.1
50°-60°	1872.6	23.3
60°-70°	2066.5	25.7
70°-80°	952.5	11.9
80°-90°	154.1	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°	8037.0	100.0
0°-180°	8037.0	100.0



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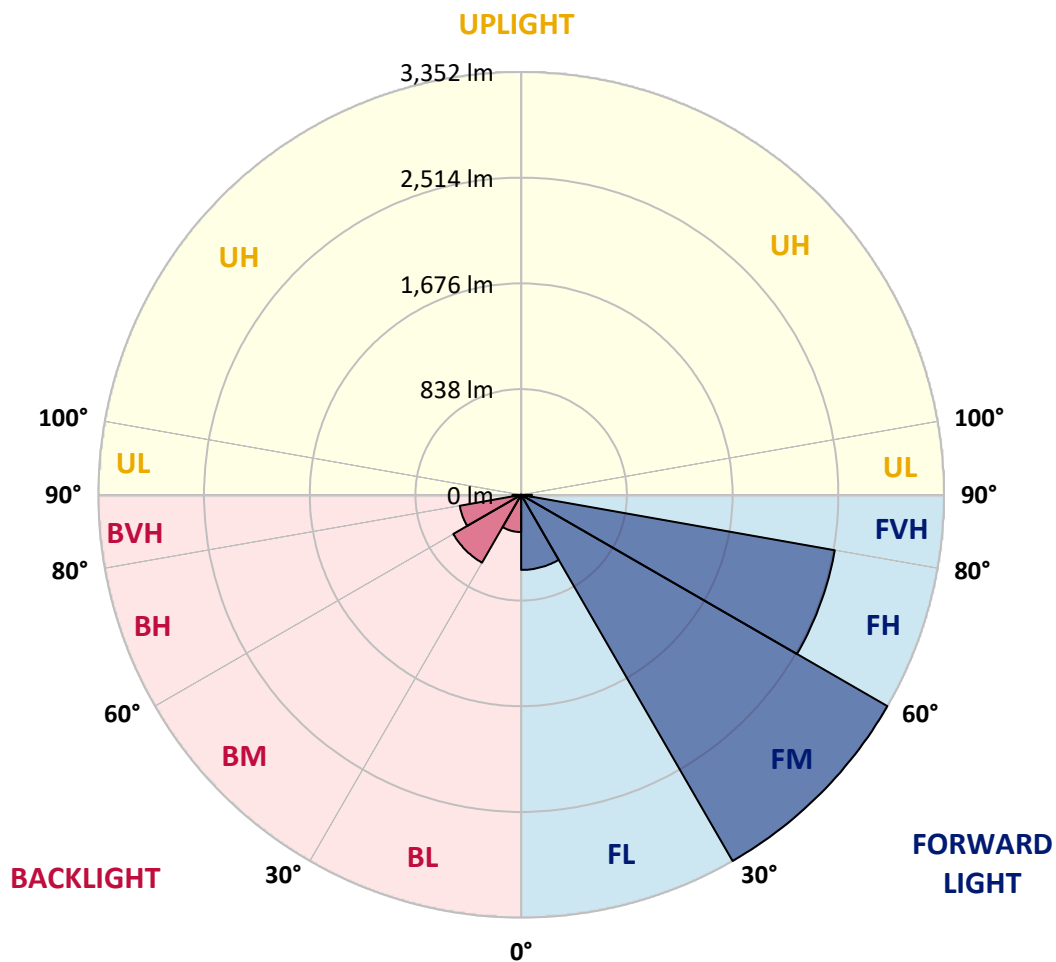
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.5	7.4			
FM (30°-60°)	3352.0	41.7			
FH (60°-80°)	2524.6	31.4			G2/5000
FVH (80°-90°)	84.7	1.1			G1/100
BL (0°-30°)	295.3	3.7	B1/500		
BM (30°-60°)	621.0	7.7	B1/1000		
BH (60°-80°)	494.4	6.2	B1/500		G1/500
BVH (80°-90°)	69.4	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6
2.5°	1221.4	1214.3	1215.5	1213.5	1207.6	1197.3	1186.2	1166.0	1145.1	1134.0	1125.3
5°	1323.5	1321.5	1318.8	1312.4	1297.4	1276.0	1249.5	1213.9	1175.5	1155.3	1136.0
7.5°	1399.9	1398.7	1395.1	1391.2	1376.5	1350.8	1310.8	1260.2	1204.4	1176.7	1146.6
10°	1406.2	1408.2	1410.9	1421.6	1423.6	1409.8	1369.0	1307.7	1234.5	1198.9	1160.5
12.5°	1352.4	1356.7	1367.4	1394.7	1423.6	1440.6	1419.7	1357.5	1269.7	1226.6	1177.9
15°	1281.2	1283.5	1296.6	1334.2	1386.0	1438.6	1458.4	1412.5	1315.2	1262.2	1204.0
17.5°	1250.7	1251.9	1261.0	1285.9	1334.2	1409.4	1480.2	1472.3	1371.0	1306.5	1236.1
20°	1235.3	1238.0	1251.1	1275.6	1306.1	1371.8	1483.4	1536.8	1437.5	1361.9	1276.4
22.5°	1279.2	1278.0	1282.8	1295.0	1320.7	1360.3	1481.0	1603.2	1522.1	1433.1	1329.0
25°	1381.7	1386.0	1377.7	1363.9	1372.2	1399.9	1493.6	1675.3	1628.2	1524.5	1397.9
27.5°	1527.7	1523.3	1511.1	1478.6	1461.6	1473.5	1535.6	1752.8	1759.9	1644.8	1488.9
30°	1673.3	1669.7	1657.8	1618.3	1583.5	1573.6	1617.1	1841.8	1917.0	1789.2	1600.5
32.5°	1824.4	1820.5	1809.4	1769.8	1727.9	1704.9	1733.0	1944.7	2102.2	1961.7	1731.8
35°	2010.8	2003.3	1979.9	1924.9	1883.8	1866.0	1879.0	2074.1	2315.8	2165.9	1891.3
37.5°	2186.1	2197.5	2173.8	2097.8	2044.4	2038.1	2052.7	2232.0	2546.1	2394.2	2074.5
40°	2362.1	2364.1	2342.7	2280.6	2225.6	2215.3	2252.1	2423.5	2817.9	2667.2	2297.2
42.5°	2544.1	2548.1	2512.1	2454.7	2414.4	2416.3	2458.3	2647.8	3129.7	2988.9	2553.6
45°	2759.8	2765.7	2726.1	2651.0	2614.2	2688.2	2670.8	2899.4	3471.6	3354.5	2848.0
47.5°	2985.3	2994.4	2964.3	2893.9	2848.0	2949.7	2883.2	3178.4	3839.6	3746.6	3171.3
50°	3108.4	3121.4	3150.7	3145.6	3135.7	3118.6	3120.2	3477.5	4219.0	4154.9	3503.6
52.5°	3042.3	3041.9	3148.7	3278.5	3417.0	3427.3	3409.1	3792.9	4573.5	4554.1	3816.6
55°	2740.0	2760.6	2922.4	3173.6	3551.9	3788.1	3841.9	4154.1	4921.7	4944.3	4134.3
57.5°	2236.7	2253.7	2472.1	2822.3	3369.9	4002.6	4457.6	4679.2	5311.0	5416.3	4557.3
60°	1517.0	1537.6	1769.0	2189.6	2880.1	3883.1	5043.6	5616.1	5777.1	6016.5	5150.8
62.5°	891.4	910.0	1098.8	1381.3	2027.8	3328.0	5300.8	6949.1	6517.4	6922.2	6056.1
65°	613.7	626.3	718.1	859.8	1165.2	2241.5	4981.8	7869.4	7656.6	8044.3	7105.8
67.5°	493.8	492.2	565.0	661.6	750.2	1155.7	3767.1	7765.4	8658.4	8820.2	7650.6
70°	406.7	405.2	454.6	534.5	599.4	650.9	2051.9	6553.0	8454.2	8519.9	7148.9
72.5°	340.3	341.9	373.5	432.9	491.8	490.2	901.7	4609.9	6650.8	7105.0	5698.8
75°	287.3	288.0	309.0	351.0	399.2	394.9	489.0	2497.5	3866.1	4182.2	3159.0
77.5°	244.5	245.3	258.8	282.1	316.5	315.0	356.9	1079.0	1612.7	1593.0	1080.6
80°	218.0	218.0	224.3	228.7	247.7	240.6	264.7	518.3	681.7	629.5	431.3
82.5°	170.9	171.7	210.5	208.9	195.1	186.0	186.0	305.5	361.2	333.9	252.4
85°	96.1	95.8	135.7	163.8	171.7	131.0	129.8	170.9	196.6	173.3	122.3
87.5°	41.1	41.9	62.9	72.8	97.3	81.5	80.3	88.2	100.1	86.7	56.6
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°	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6
2.5°	1117.0	1106.7	1084.1	1056.0	1030.7	1014.1	999.1	977.3	978.5	963.4	952.4
5°	1116.2	1094.8	1042.6	980.5	920.7	877.6	845.1	815.9	808.7	794.9	786.6
7.5°	1117.0	1082.1	994.3	895.0	821.0	766.4	738.7	723.3	719.7	715.0	715.4
10°	1119.7	1070.7	941.3	815.1	737.5	701.5	694.8	699.5	705.1	706.7	707.1
12.5°	1126.1	1060.4	883.1	743.9	685.3	674.2	685.7	701.9	712.6	717.7	717.3
15°	1140.3	1052.5	827.3	688.1	656.4	662.3	683.7	706.7	722.1	729.2	729.6
17.5°	1155.7	1041.0	770.0	645.3	635.0	650.1	676.6	703.5	722.5	730.4	732.0
20°	1175.9	1026.8	709.8	613.3	614.9	631.9	656.8	683.7	704.7	711.4	714.6
22.5°	1202.4	1011.3	657.2	587.2	591.9	605.0	624.4	647.7	665.9	669.1	671.8
25°	1238.0	994.7	615.3	563.4	565.4	572.9	586.0	599.8	612.5	608.9	611.7
27.5°	1285.9	980.5	584.0	541.7	538.1	539.7	546.4	550.8	557.5	547.6	548.8
30°	1342.1	965.0	559.9	522.7	512.8	510.0	511.6	514.0	519.1	505.7	503.7
32.5°	1407.4	946.4	537.3	506.1	492.2	486.7	487.5	493.8	513.6	505.3	500.9
35°	1483.4	925.5	513.6	487.9	478.4	470.4	469.7	489.4	548.4	543.3	539.3
37.5°	1572.4	904.5	489.8	467.3	468.1	459.4	456.6	479.2	555.1	534.9	532.2
40°	1685.5	893.4	469.7	445.5	455.4	454.2	448.7	460.2	510.8	474.0	469.3
42.5°	1825.6	895.0	454.6	422.2	440.4	453.0	444.3	444.7	462.9	435.2	430.9
45°	1998.5	913.6	443.9	403.6	423.4	451.9	442.8	436.4	438.0	423.4	421.0
47.5°	2200.3	952.0	436.4	388.1	407.1	447.5	442.4	434.0	430.5	422.6	420.6
50°	2424.6	1007.8	430.9	373.5	392.5	440.4	442.8	431.7	427.7	424.6	423.4
52.5°	2645.0	1071.5	422.6	360.8	381.0	431.7	443.9	429.3	424.9	422.6	421.4
55°	2890.7	1151.0	409.9	350.2	371.5	420.6	443.9	425.7	421.0	421.4	421.0
57.5°	3222.7	1279.6	394.9	341.1	360.1	407.1	436.4	421.8	415.8	416.2	416.6
60°	3741.4	1506.3	376.7	332.0	345.8	391.3	426.1	413.1	407.1	408.7	409.1
62.5°	4504.3	1839.1	352.9	318.5	330.8	374.3	411.9	402.0	396.1	400.0	400.0
65°	5297.2	2132.6	323.7	301.5	315.0	355.7	394.1	388.1	382.2	391.3	390.9
67.5°	5510.5	2067.0	294.4	282.9	299.1	335.1	372.7	369.6	366.4	382.2	381.4
70°	4895.2	1659.4	267.5	263.9	281.7	313.0	349.8	349.8	347.8	359.7	356.9
72.5°	3729.6	1176.7	241.8	243.7	261.9	288.8	324.8	327.6	324.4	330.4	328.0
75°	1996.5	673.4	216.0	221.6	237.4	264.3	297.1	299.9	297.9	297.5	298.7
77.5°	663.5	329.2	189.1	197.8	211.7	239.0	268.3	272.6	267.9	267.1	266.7
80°	295.6	206.9	159.5	170.9	183.2	210.1	237.8	241.4	236.2	243.3	234.2
82.5°	189.9	136.1	127.8	140.5	152.3	181.2	207.3	208.1	203.4	236.2	201.4
85°	92.2	84.3	96.1	107.6	117.9	142.4	171.7	172.1	160.2	146.0	140.9
87.5°	45.9	49.1	64.1	74.4	79.5	97.7	125.0	122.7	117.5	106.8	98.5
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)