

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: P200199

Luminaire Tested: **GPC-AF-01-LED-E1-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-01-LED-E1-T3R  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6648.2 lumens  
Efficiency: N/A  
Efficacy: 112.7 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 - G2

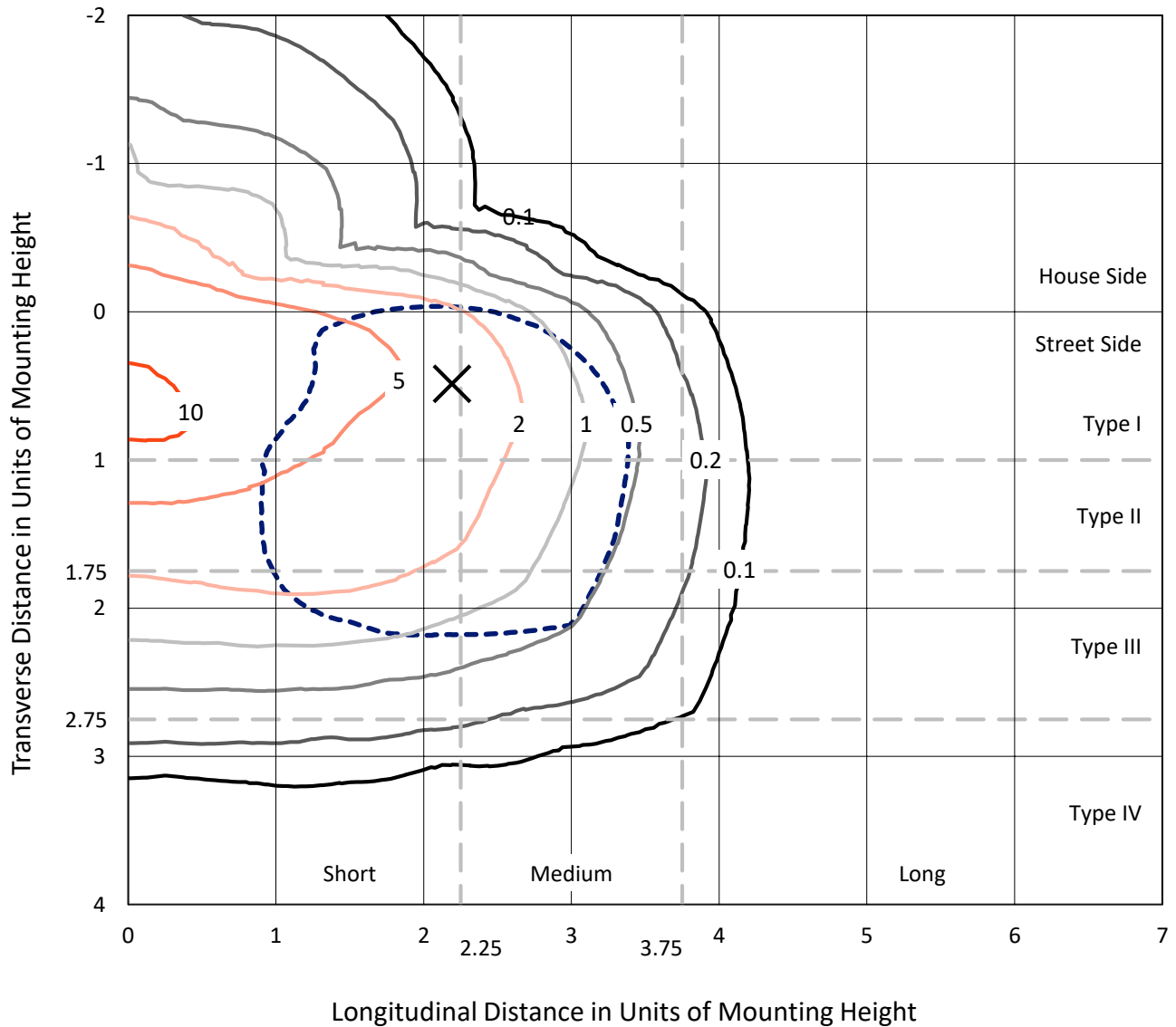
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

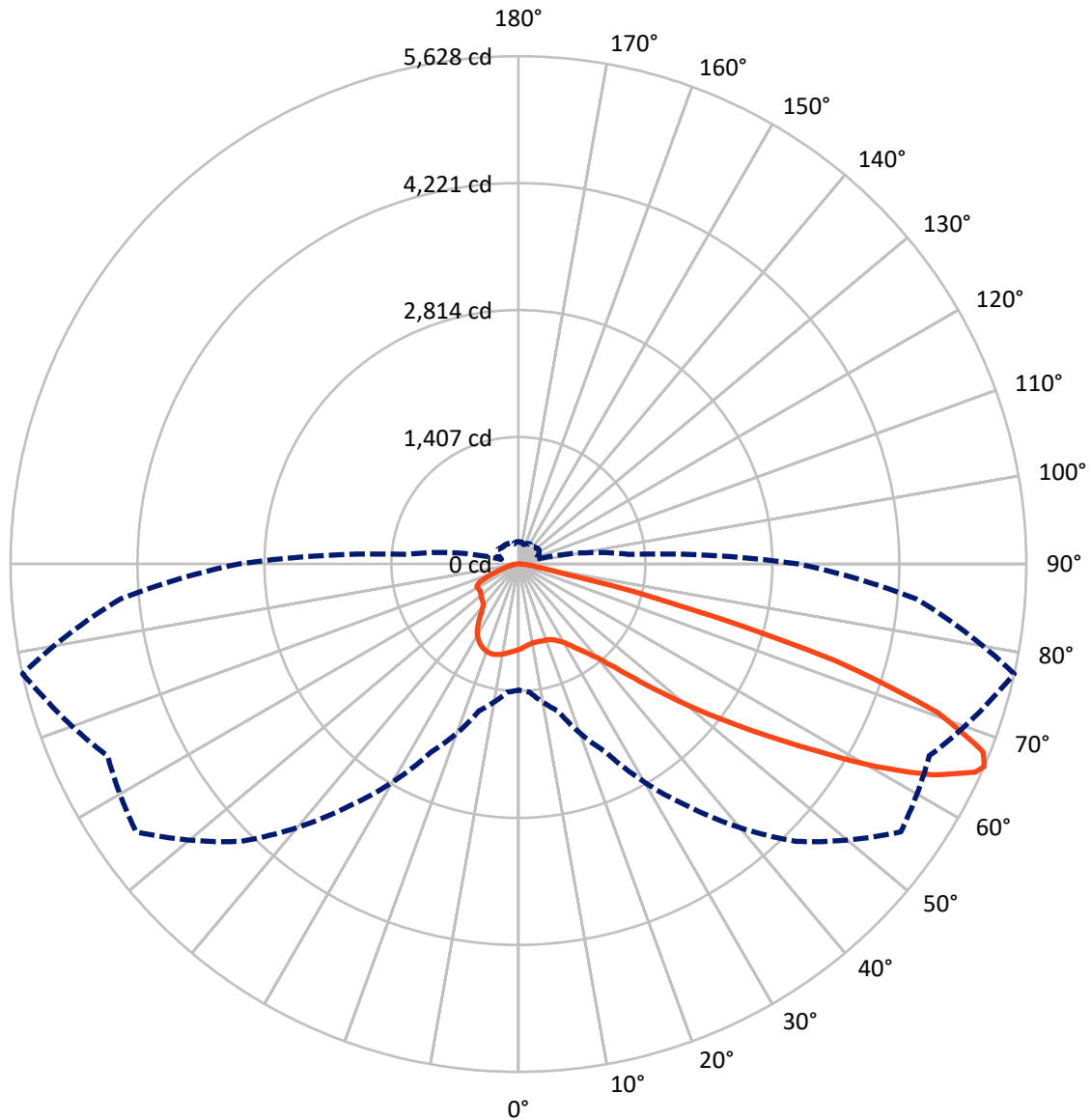
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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	1135.8	0.0	1135.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	5512.4	0.0	5512.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	6648.2	0.0	6648.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	1.3
10°-20°	238.8	3.6
20°-30°	407.5	6.1
30°-40°	652.4	9.8
40°-50°	1007.9	15.2
50°-60°	1429.5	21.5
60°-70°	1912.3	28.8
70°-80°	830.5	12.5
80°-90°	84.7	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°	6648.2	100.0
0°-180°	6648.2	100.0



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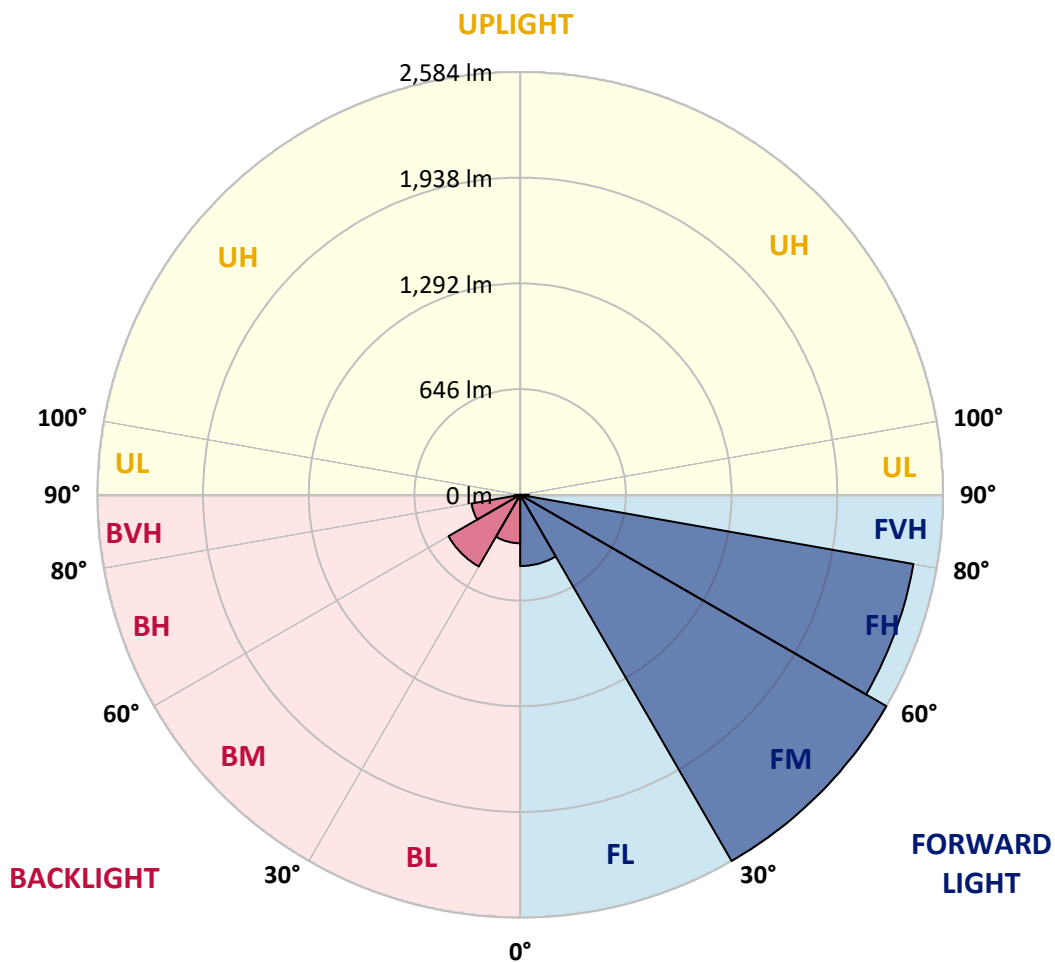
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.2	6.5			
FM	(30°-60°)	2583.8	38.9			
FH	(60°-80°)	2440.3	36.7			G2/5000
FVH	(80°-90°)	53.1	0.8			G1/100
BL	(0°-30°)	295.8	4.4	B1/500		
BM	(30°-60°)	505.9	7.6	B1/1000		
BH	(60°-80°)	302.5	4.5	B1/500		G1/500
BVH	(80°-90°)	31.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4
2.5°	838.1	843.7	848.4	852.8	861.6	876.1	892.7	906.2	925.8	929.5	939.9
5°	761.1	761.1	764.9	771.5	783.4	805.1	827.7	857.8	900.3	910.3	937.9
7.5°	723.7	724.0	726.3	731.9	742.3	762.1	786.9	822.4	879.8	896.5	943.7
10°	737.5	734.4	729.7	726.9	728.4	740.1	763.6	803.2	867.3	888.6	956.2
12.5°	814.9	808.8	792.6	770.9	750.1	741.6	755.4	794.1	861.9	886.8	972.8
15°	941.1	938.6	908.2	863.2	812.9	770.9	761.4	790.6	862.6	888.9	992.7
17.5°	1099.5	1096.0	1055.8	990.4	908.5	826.4	782.5	793.5	864.8	892.7	1011.8
20°	1259.4	1248.6	1205.2	1127.4	1022.1	902.1	817.3	800.7	867.6	896.8	1031.9
22.5°	1378.7	1369.9	1331.0	1255.3	1133.9	989.8	864.2	813.2	876.7	908.8	1056.7
25°	1483.6	1484.2	1445.6	1372.4	1247.1	1082.8	924.4	846.9	900.0	933.2	1090.7
27.5°	1613.3	1605.8	1569.7	1497.1	1358.9	1176.7	997.4	893.0	934.5	968.1	1135.3
30°	1768.5	1763.2	1721.4	1639.1	1483.0	1277.6	1080.5	946.7	979.2	1013.9	1193.7
32.5°	1951.0	1948.5	1905.1	1799.3	1626.2	1396.2	1178.2	1017.7	1045.8	1081.9	1277.6
35°	2165.3	2165.6	2114.3	1987.2	1783.0	1534.5	1289.1	1109.2	1126.8	1164.4	1377.4
37.5°	2297.1	2313.2	2294.1	2164.3	1960.5	1689.0	1433.1	1230.4	1219.2	1257.1	1484.5
40°	2325.5	2344.9	2405.6	2339.6	2158.9	1859.3	1560.5	1346.9	1332.8	1379.3	1622.4
42.5°	2285.9	2312.9	2441.1	2487.5	2369.8	2069.1	1732.1	1520.0	1502.1	1564.6	1793.9
45°	2262.4	2282.4	2430.6	2564.5	2552.6	2306.2	1950.4	1737.4	1730.8	1812.8	1991.9
47.5°	2221.4	2239.6	2382.4	2582.4	2660.0	2523.6	2212.6	2003.1	2016.0	2123.4	2215.2
50°	2243.4	2251.0	2328.2	2536.8	2691.1	2682.9	2505.7	2311.1	2354.9	2489.1	2468.1
52.5°	2240.4	2259.8	2322.0	2462.1	2695.2	2781.2	2794.4	2654.4	2747.0	2900.9	2748.6
55°	1811.2	1847.0	2248.1	2443.2	2709.6	2877.7	3051.4	3016.2	3188.9	3368.4	3065.2
57.5°	1729.6	1752.2	1974.6	2482.8	2786.3	3061.8	3337.3	3414.5	3703.5	3911.8	3450.9
60°	1713.5	1741.5	1971.7	2531.2	2941.8	3361.7	3761.0	3896.7	4329.5	4557.7	3898.3
62.5°	1663.6	1693.7	1953.2	2524.9	3162.6	3776.7	4303.5	4409.3	4923.3	5145.0	4272.4
65°	1505.3	1533.5	1802.1	2423.5	3311.5	4219.6	4945.6	4879.3	5391.9	5558.7	4458.9
66°	1396.9	1424.6	1683.1	2304.1	3276.9	4345.3	5173.0	5024.7	5496.8	5627.5	4422.5
67.5°	1198.7	1220.4	1451.9	2036.8	3093.2	4380.5	5364.3	5134.0	5507.9	5554.0	4214.3
70°	757.4	763.6	943.7	1406.0	2341.4	3799.0	5073.1	4862.6	5053.6	4928.6	3533.0
72.5°	328.6	326.4	453.0	715.2	1325.6	2549.1	4103.7	4012.3	3964.2	3679.0	2473.1
75°	182.8	185.4	235.3	332.0	538.7	1252.1	2684.5	2568.9	2169.1	1850.8	1121.5
77.5°	146.7	150.2	195.1	235.6	241.8	436.6	1256.2	1022.1	615.4	493.8	311.6
80°	115.9	122.2	170.2	183.4	163.1	180.0	405.8	324.5	243.5	223.3	161.4
82.5°	91.8	96.2	146.1	138.8	114.1	121.2	194.5	189.5	158.4	144.1	93.3
85°	66.0	74.2	120.0	104.6	74.8	81.6	129.1	123.8	90.7	74.2	41.1
87.5°	27.0	35.2	84.8	69.5	41.7	38.1	64.4	60.7	43.1	31.4	20.5
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°	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4	947.4
2.5°	946.4	954.0	963.7	969.7	972.8	975.1	978.5	978.1	979.2	979.5	980.7
5°	952.8	965.3	979.5	983.2	983.2	979.8	976.3	970.7	968.4	967.8	968.4
7.5°	969.0	982.9	995.1	990.7	981.3	967.5	949.6	933.9	925.4	922.6	922.0
10°	989.8	1006.5	1011.5	994.8	967.2	933.9	898.4	872.7	857.8	853.8	852.5
12.5°	1015.0	1030.6	1023.8	988.6	937.3	883.6	834.6	793.5	762.7	753.0	752.3
15°	1042.6	1054.9	1030.6	969.0	892.7	813.6	726.3	655.3	616.9	604.7	603.7
17.5°	1068.4	1074.6	1026.5	935.2	827.1	698.9	583.0	528.4	515.2	518.3	518.9
20°	1090.4	1090.4	1012.7	886.5	723.7	547.8	474.6	473.7	483.1	492.6	494.4
22.5°	1114.5	1100.1	988.6	817.6	577.4	448.3	437.6	446.4	457.1	467.4	469.0
25°	1144.4	1108.0	954.9	713.4	453.9	407.1	411.2	418.4	423.7	430.4	431.3
27.5°	1177.6	1118.0	910.6	569.8	393.9	381.4	384.5	387.0	386.4	388.9	389.5
30°	1217.5	1129.5	850.0	445.4	369.1	359.4	353.7	351.5	351.5	355.6	357.1
32.5°	1270.9	1146.8	763.0	381.7	357.1	343.6	325.4	317.2	320.4	334.2	337.4
35°	1329.6	1165.3	645.2	360.0	354.7	336.4	308.1	293.1	293.4	306.3	310.4
37.5°	1393.8	1189.0	516.1	355.9	360.3	336.8	299.0	278.3	269.9	269.9	271.4
40°	1475.7	1213.1	417.8	358.7	372.3	340.5	294.3	266.7	242.8	243.5	244.7
42.5°	1582.5	1233.9	365.0	364.7	386.7	345.6	294.0	251.3	230.6	244.7	257.6
45°	1701.3	1244.2	341.8	370.0	398.3	348.7	289.0	248.8	232.1	274.3	298.7
47.5°	1837.9	1238.3	328.9	371.9	401.1	348.7	283.4	254.7	243.2	317.6	346.2
50°	1987.8	1221.0	316.3	368.2	400.2	348.0	288.7	260.8	247.2	325.1	344.9
52.5°	2164.0	1206.6	303.1	360.0	393.6	344.6	294.9	258.2	234.4	295.6	309.4
55°	2365.1	1210.7	288.4	348.3	383.2	338.0	292.8	248.2	220.9	260.4	268.9
57.5°	2622.0	1259.4	270.8	333.6	369.1	327.0	284.9	243.5	216.8	236.2	241.2
60°	2908.8	1344.2	248.8	318.9	351.5	309.4	279.0	245.6	218.6	234.4	236.8
62.5°	3119.3	1393.5	230.0	297.2	327.7	289.9	271.4	248.5	223.6	240.9	240.3
65°	3176.4	1312.4	206.3	265.5	295.3	269.5	262.0	251.6	225.9	246.2	243.5
66°	3096.3	1225.1	196.0	250.6	279.0	259.4	257.3	251.3	224.9	246.9	242.2
67.5°	2901.9	1046.1	178.1	229.0	252.9	244.4	249.7	248.5	222.4	246.2	239.7
70°	2366.6	713.7	152.3	190.7	210.4	215.1	235.3	238.4	214.2	235.3	220.9
72.5°	1653.5	434.8	134.7	147.9	170.2	183.4	215.5	224.6	203.3	205.4	191.6
75°	799.1	230.9	122.2	114.7	132.3	153.3	191.6	205.7	186.0	171.9	166.8
77.5°	249.1	141.1	103.6	92.4	103.6	123.8	160.2	180.3	165.5	143.8	142.0
80°	133.8	103.6	79.8	74.2	81.9	97.1	125.9	150.5	142.3	129.1	115.3
82.5°	88.3	67.2	59.0	57.5	62.5	74.2	93.6	124.7	124.7	110.6	80.4
85°	45.5	41.1	40.5	40.5	43.7	49.3	63.7	96.2	102.4	58.4	48.4
87.5°	22.6	23.5	22.0	22.9	24.6	24.1	30.5	48.4	57.8	35.5	29.6
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)