

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: P200151

Luminaire Tested: **GPC-AF-01-LED-E1-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6178.6 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

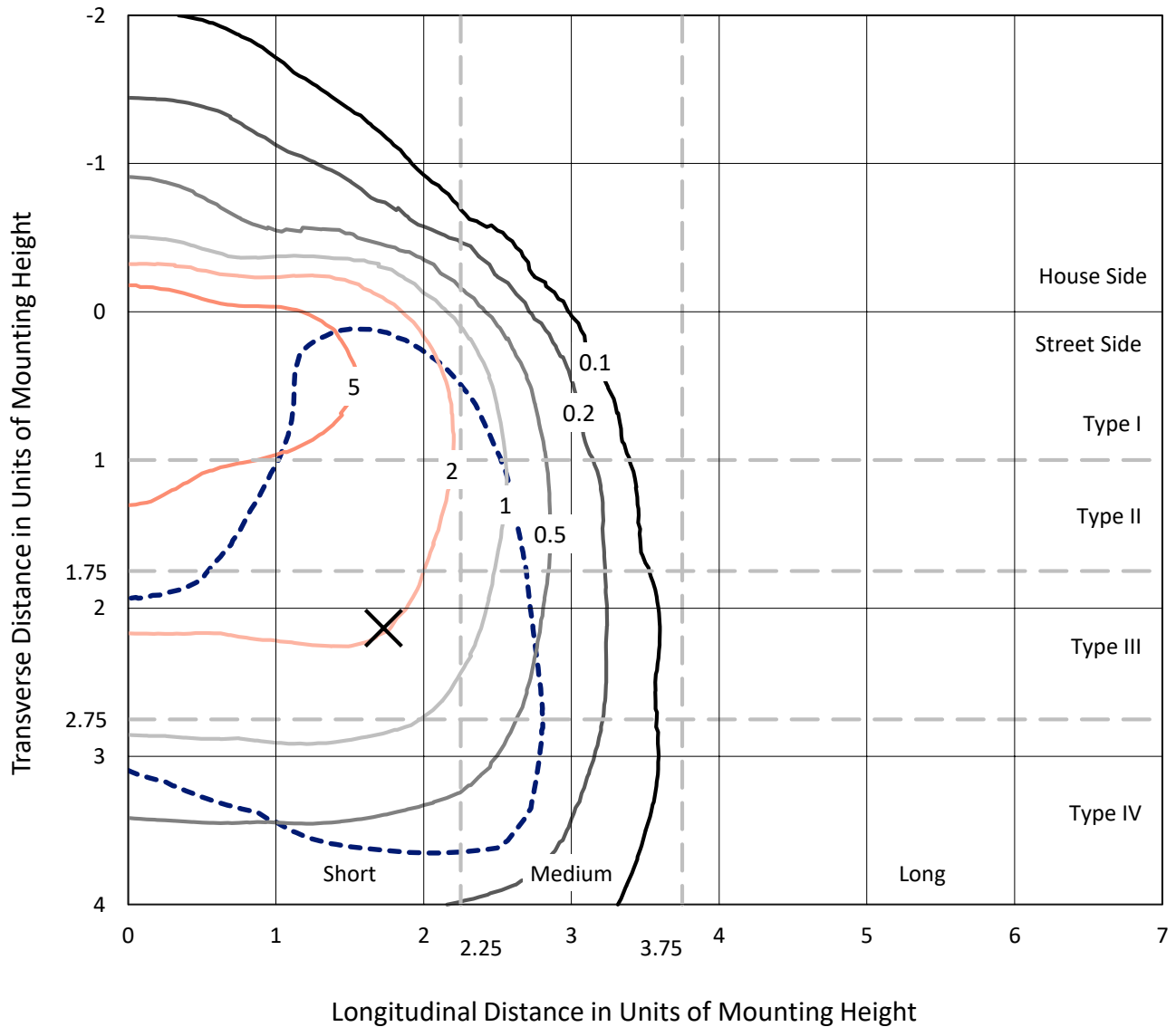
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

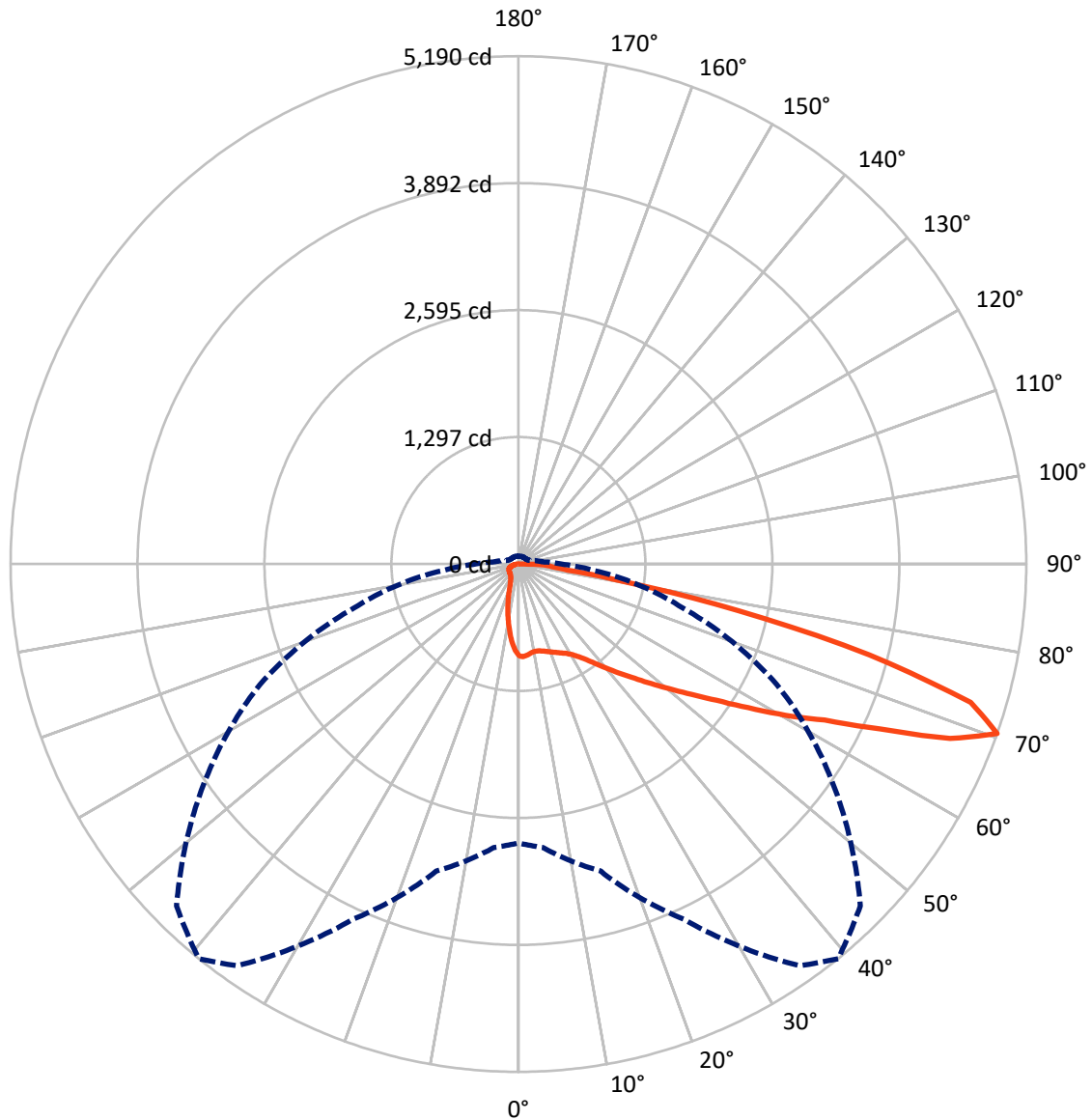
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	702.7	0.0	702.7
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	5475.9	0.0	5475.9
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	6178.6	0.0	6178.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.5	1.3
10°-20°	201.2	3.3
20°-30°	313.3	5.1
30°-40°	488.1	7.9
40°-50°	819.4	13.3
50°-60°	1301.6	21.1
60°-70°	1736.3	28.1
70°-80°	1048.5	17.0
80°-90°	189.8	3.1
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°	6178.6	100.0
0°-180°	6178.6	100.0



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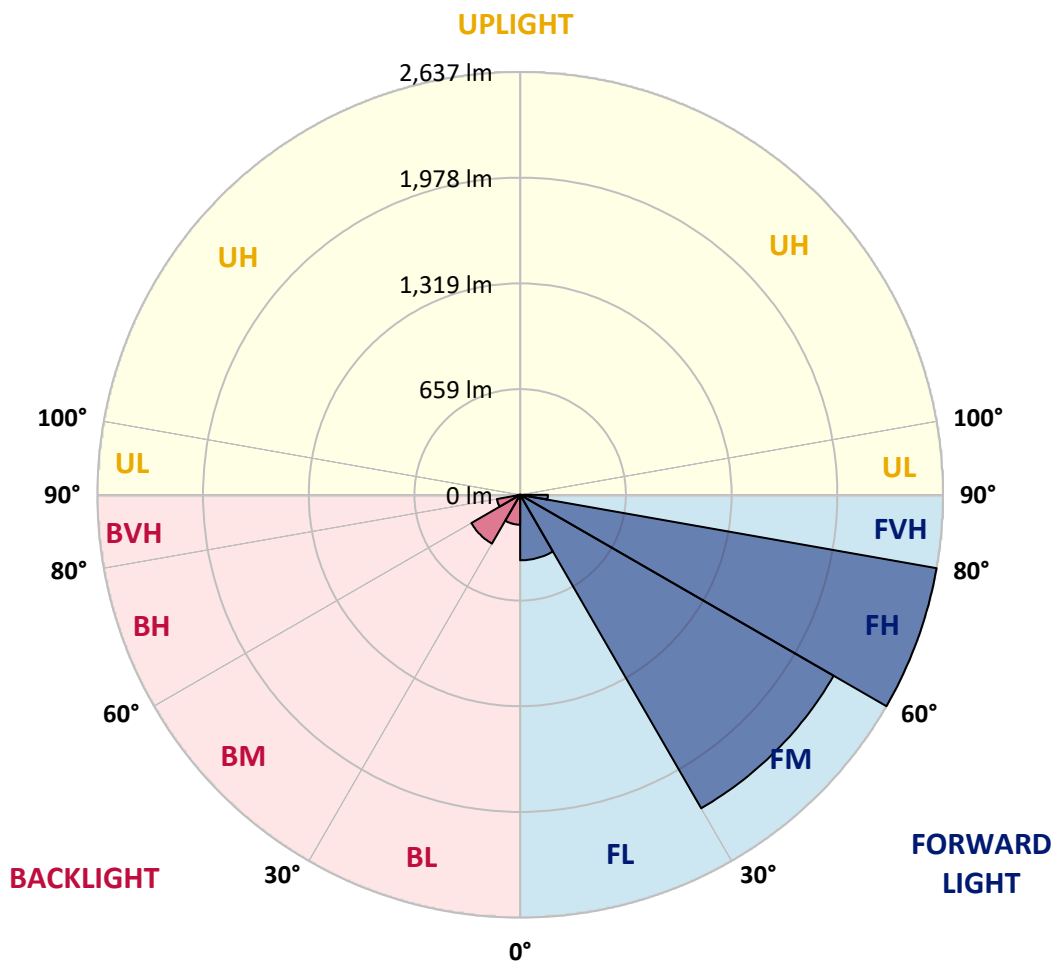
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.6	6.6			
FM (30°-60°)	2257.4	36.5			
FH (60°-80°)	2637.2	42.7			G2/5000
FVH (80°-90°)	172.7	2.8			G2/225
BL (0°-30°)	186.4	3.0	B1/500		
BM (30°-60°)	351.7	5.7	B1/1000		
BH (60°-80°)	147.5	2.4	B1/500		G1/500
BVH (80°-90°)	17.1	0.3			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0
2.5°	956.3	955.9	953.4	951.5	949.9	949.3	950.5	945.8	941.8	936.7	931.4
5°	949.0	948.7	944.6	940.8	937.0	935.8	935.5	927.0	922.0	914.4	904.4
7.5°	941.1	939.6	934.3	927.9	921.4	918.2	915.0	904.1	898.5	890.9	879.2
10°	933.0	931.1	926.1	919.8	913.5	908.8	903.5	892.7	886.8	881.2	867.7
12.5°	924.5	922.9	921.7	918.8	914.4	910.3	906.2	897.1	890.9	884.3	868.6
15°	923.2	922.6	925.5	927.3	924.8	922.3	917.9	910.0	903.5	896.8	876.5
17.5°	933.3	933.0	940.2	945.2	944.0	939.6	933.6	924.8	919.4	913.8	888.3
20°	955.3	956.9	965.7	972.2	966.0	959.7	949.9	937.7	934.9	932.3	900.6
22.5°	996.8	998.3	1004.6	1007.1	990.8	981.7	968.1	952.5	950.5	952.5	915.4
25°	1061.5	1059.9	1059.0	1049.5	1019.7	1005.6	988.3	971.9	972.9	981.3	936.1
27.5°	1147.2	1138.7	1125.6	1097.3	1049.9	1034.1	1013.1	998.0	1004.0	1020.3	967.2
30°	1236.1	1226.7	1196.2	1150.1	1089.4	1072.2	1048.6	1031.6	1047.3	1073.1	1008.7
32.5°	1318.4	1317.2	1272.6	1213.2	1144.1	1129.0	1105.4	1086.3	1111.7	1151.0	1070.9
35°	1408.3	1411.1	1357.7	1286.4	1217.9	1202.2	1185.2	1170.8	1204.7	1258.7	1161.0
37.5°	1504.4	1510.1	1446.9	1366.5	1302.1	1295.5	1285.4	1279.2	1331.6	1406.4	1287.0
40°	1632.8	1627.2	1539.5	1457.0	1405.4	1405.1	1402.0	1409.5	1496.9	1599.3	1448.8
42.5°	1770.4	1753.8	1637.9	1554.1	1518.9	1529.5	1535.9	1566.5	1695.7	1833.6	1646.0
45°	1918.7	1881.4	1740.0	1656.8	1644.8	1667.4	1688.8	1755.7	1929.7	2100.3	1862.2
47.5°	2037.2	2001.1	1845.5	1764.5	1790.6	1824.8	1866.0	1971.8	2191.8	2375.8	2075.5
50°	2130.5	2106.9	1952.0	1890.2	1951.1	2003.9	2071.1	2216.5	2464.4	2644.1	2273.1
52.5°	2220.9	2203.3	2059.5	2019.0	2139.6	2212.4	2303.9	2479.1	2744.0	2907.9	2439.2
55°	2302.7	2290.1	2175.1	2179.5	2361.4	2456.2	2571.2	2778.2	3048.7	3143.2	2580.0
57.5°	2394.6	2378.7	2307.1	2380.8	2646.3	2769.4	2919.0	3114.4	3334.5	3352.4	2687.1
60°	2487.3	2473.5	2453.4	2613.3	3008.2	3137.6	3279.3	3440.1	3624.5	3514.9	2680.8
62.5°	2567.7	2569.3	2604.8	2857.4	3362.5	3512.4	3685.2	3844.0	3886.8	3543.1	2482.6
65°	2704.1	2728.9	2834.8	3203.0	3861.3	4061.8	4273.8	4248.4	3959.3	3279.0	2057.6
67.5°	2866.2	2909.9	3124.4	3663.5	4491.9	4757.9	4839.9	4339.8	3668.8	2665.4	1466.7
70°	2849.8	2909.9	3249.4	4006.8	5011.4	5189.8	4941.1	3927.6	2913.3	1741.3	779.1
72.5°	2530.7	2616.4	2994.7	3849.5	4847.8	4832.0	4289.5	2928.1	1730.9	699.3	304.4
75°	1928.8	2015.5	2340.9	3041.1	3831.6	3699.6	3043.7	1617.5	656.8	277.7	191.9
77.5°	1109.5	1176.8	1428.0	1865.0	2430.7	2295.4	1694.1	719.3	319.8	193.5	149.9
80°	619.5	656.8	809.6	946.1	1191.2	1091.9	758.0	447.0	238.8	140.5	115.6
82.5°	489.8	523.0	654.7	596.9	544.1	502.0	435.4	398.0	190.7	88.6	69.2
85°	427.9	459.6	554.1	469.9	371.6	340.8	353.7	391.7	148.2	53.4	59.0
87.5°	396.4	438.8	493.8	362.2	289.3	256.4	326.4	429.4	47.8	33.3	23.8
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°	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0
2.5°	926.7	921.7	913.5	906.2	895.0	889.0	882.4	877.7	873.9	870.7	875.9
5°	898.2	888.7	871.5	852.8	830.8	813.7	799.1	785.6	776.2	770.0	774.4
7.5°	871.1	855.7	828.7	795.0	757.4	725.4	699.0	675.7	659.7	649.4	653.4
10°	855.7	836.6	794.7	741.9	686.4	636.5	594.9	559.1	534.4	520.2	522.4
12.5°	851.9	827.2	769.4	696.7	620.7	551.3	492.9	443.2	408.4	390.2	390.8
15°	854.8	823.1	745.4	653.4	557.3	469.6	396.8	336.4	295.9	275.2	274.9
17.5°	859.5	819.9	720.4	606.6	492.9	391.1	309.7	250.7	214.8	198.2	196.9
20°	864.5	814.9	692.0	556.0	426.0	318.2	242.5	196.3	173.7	164.6	164.0
22.5°	871.8	810.5	662.9	502.6	360.3	259.1	199.5	168.4	156.4	151.7	151.1
25°	883.3	808.2	631.8	447.0	301.3	216.8	173.7	154.6	147.6	144.5	144.2
27.5°	902.9	811.4	602.5	393.0	253.2	188.1	159.3	147.6	142.6	139.8	139.4
30°	927.9	821.1	571.7	341.8	215.8	168.7	150.5	142.9	138.8	136.1	136.1
32.5°	969.8	837.5	539.4	297.5	189.1	155.2	143.8	138.8	135.4	133.2	132.9
35°	1031.3	868.3	509.2	260.8	169.9	145.5	138.2	134.4	132.0	130.6	130.6
37.5°	1120.8	917.0	482.5	234.4	158.4	138.8	132.9	130.0	128.5	128.5	128.5
40°	1241.1	984.2	460.8	216.8	151.7	134.1	128.8	126.6	125.6	125.9	125.9
42.5°	1389.8	1071.5	446.4	204.5	148.6	131.3	125.9	124.1	123.2	122.9	123.2
45°	1559.1	1170.8	444.8	195.4	145.5	129.4	124.1	122.2	120.3	119.1	119.1
47.5°	1723.7	1271.6	457.7	192.2	142.0	127.3	122.5	120.6	117.8	115.0	115.0
50°	1869.1	1357.4	475.0	193.5	140.8	124.1	120.0	119.1	114.7	111.5	111.2
52.5°	1984.7	1423.3	489.1	197.3	142.0	121.9	116.8	117.1	112.4	109.0	108.7
55°	2077.4	1466.7	485.4	201.0	144.8	120.6	114.1	114.7	110.9	107.4	107.4
57.5°	2117.9	1450.6	443.6	197.9	147.0	120.9	111.8	114.4	111.2	108.0	108.0
60°	2030.9	1308.4	365.3	184.1	144.2	120.0	110.9	115.6	115.3	112.1	111.8
62.5°	1767.7	1053.6	283.4	163.7	134.4	115.3	108.3	115.3	118.8	117.8	117.5
65°	1362.4	750.4	216.5	141.7	121.2	107.4	101.8	108.0	112.7	114.1	113.8
67.5°	884.3	459.9	166.8	120.9	106.5	98.3	93.3	96.2	97.1	97.1	96.5
70°	434.8	247.6	132.9	101.8	91.5	88.6	85.7	84.2	82.7	81.3	81.3
72.5°	214.5	161.8	109.4	86.0	78.9	77.6	76.9	75.1	73.9	72.2	71.6
75°	158.7	131.7	93.0	72.5	67.8	66.6	67.8	66.3	66.0	64.8	64.0
77.5°	130.3	112.1	80.1	62.2	58.1	56.0	57.8	58.1	58.4	56.6	56.0
80°	105.9	94.8	66.9	51.6	47.8	46.1	47.5	49.9	50.5	47.8	46.4
82.5°	76.3	77.6	54.0	40.2	37.0	35.8	38.4	41.4	42.0	38.1	37.0
85°	64.0	64.8	41.4	28.5	25.5	23.5	27.6	30.8	32.9	28.9	27.9
87.5°	26.7	38.1	23.8	16.1	14.1	12.3	14.7	16.4	19.7	18.2	17.9
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)