

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: P200571

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
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-AFL-8030-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3506 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

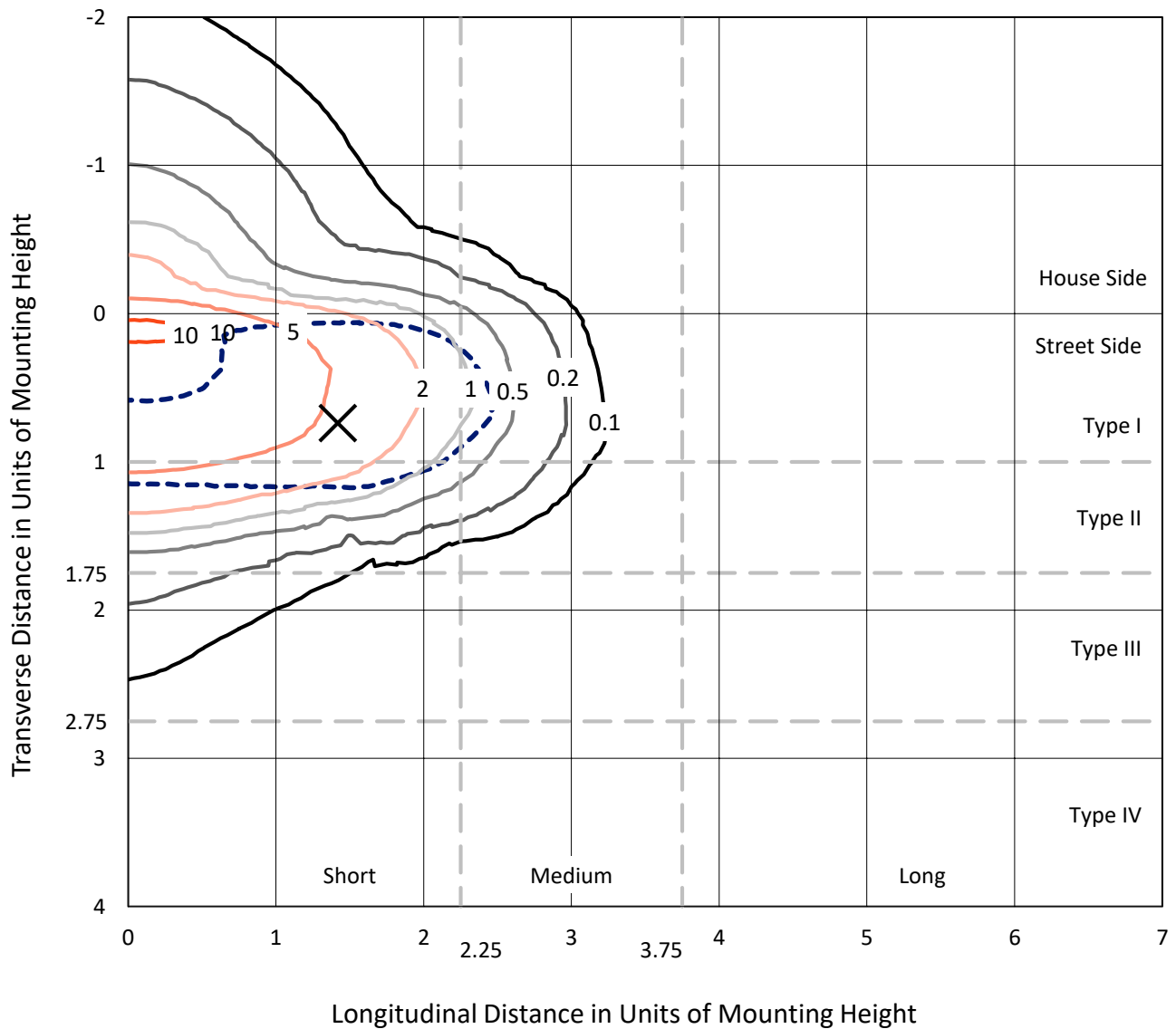
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

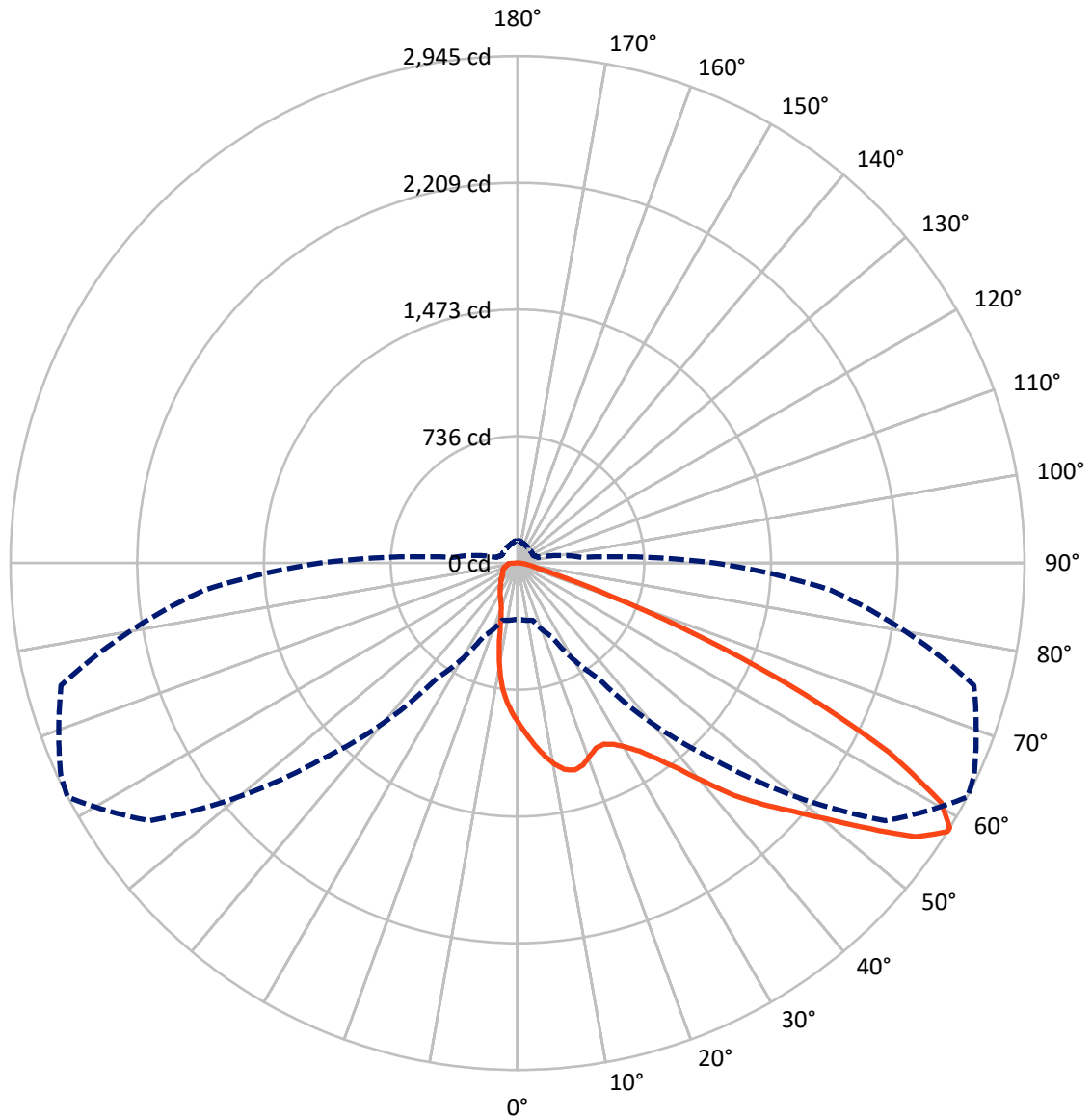
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	534.7	0.0	534.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	2971.3	0.0	2971.3
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	3506.0	0.0	3506.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	2.4
10°-20°	212.9	6.1
20°-30°	344.2	9.8
30°-40°	546.4	15.6
40°-50°	799.4	22.8
50°-60°	836.1	23.8
60°-70°	494.0	14.1
70°-80°	139.2	4.0
80°-90°	50.5	1.4
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°	3506.0	100.0
0°-180°	3506.0	100.0



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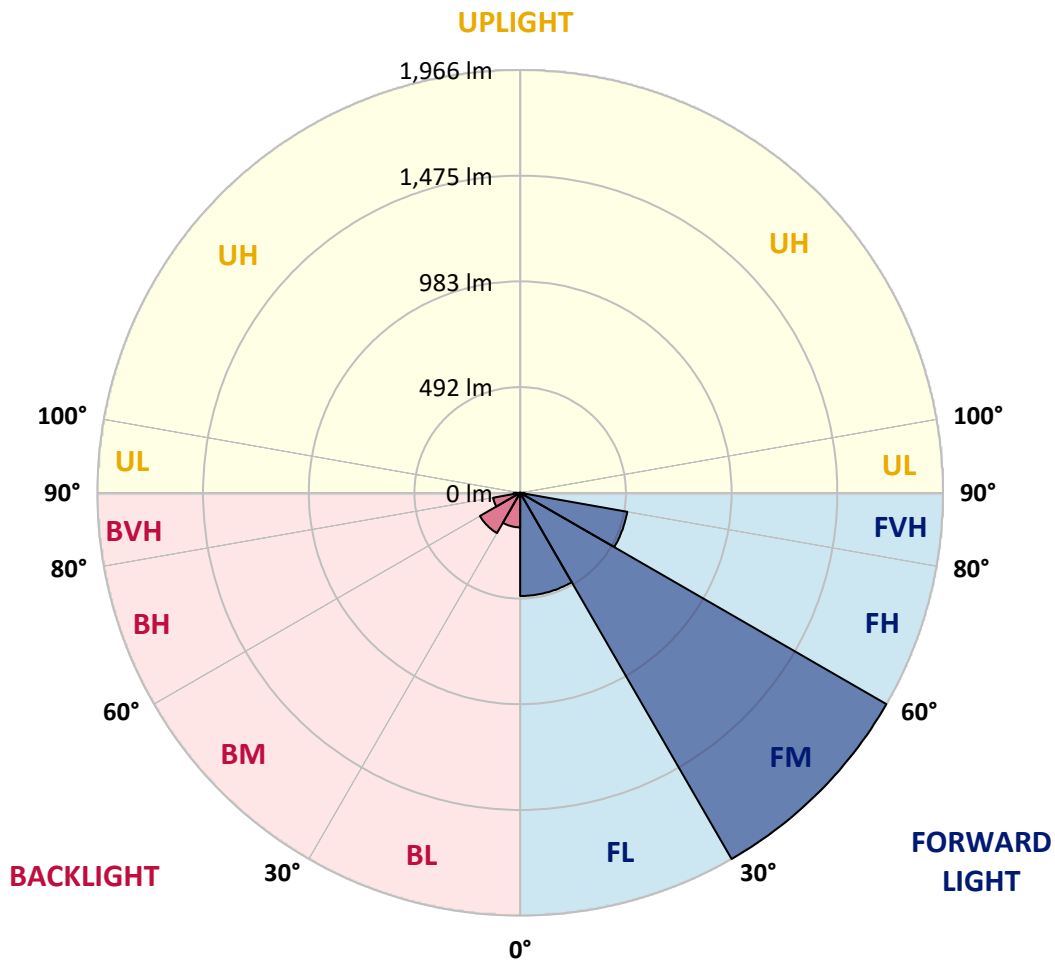
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	479.7	13.7			
FM	(30°-60°)	1966.1	56.1			
FH	(60°-80°)	505.6	14.4			G0/660
FVH	(80°-90°)	19.9	0.6			G1/100
BL	(0°-30°)	160.7	4.6	B1/500		
BM	(30°-60°)	215.8	6.2	B0/220		
BH	(60°-80°)	127.6	3.6	B1/500		G1/500
BVH	(80°-90°)	30.6	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3
2.5°	1064.2	1055.6	1050.2	1045.4	1039.1	1025.7	1007.7	996.3	990.6	970.9	947.6
5°	1168.5	1160.9	1155.3	1148.9	1137.7	1116.7	1087.6	1064.5	1053.1	1013.8	967.3
7.5°	1144.1	1147.2	1157.0	1174.0	1188.5	1185.7	1159.8	1130.4	1115.4	1060.7	990.1
10°	996.8	1002.3	1019.1	1058.9	1123.3	1189.3	1209.5	1189.2	1174.0	1107.1	1013.5
12.5°	967.3	967.1	968.4	979.0	1017.3	1110.3	1211.1	1231.6	1222.5	1151.4	1037.5
15°	979.3	979.7	978.7	983.1	995.0	1031.8	1160.6	1247.9	1254.4	1195.9	1062.2
17.5°	1011.0	1010.2	1006.4	1006.4	1010.7	1025.1	1101.2	1232.8	1262.5	1235.4	1084.0
20°	1064.2	1060.4	1050.3	1041.1	1036.5	1044.2	1076.7	1197.8	1248.4	1269.9	1102.0
22.5°	1128.6	1125.6	1109.3	1089.5	1073.4	1073.3	1089.3	1167.2	1224.2	1302.4	1117.2
25°	1211.8	1207.0	1182.7	1151.0	1123.0	1112.2	1116.7	1165.7	1211.0	1337.8	1130.7
27.5°	1309.5	1300.8	1272.1	1226.3	1185.0	1163.4	1157.0	1192.6	1223.0	1381.5	1149.6
30°	1428.1	1418.0	1381.2	1321.6	1263.3	1227.8	1214.1	1240.4	1263.0	1434.8	1179.8
32.5°	1562.9	1548.4	1505.8	1440.1	1363.5	1309.4	1287.1	1303.4	1321.4	1499.1	1217.6
35°	1749.3	1732.0	1670.4	1579.8	1493.3	1418.8	1383.2	1395.0	1412.5	1594.8	1272.2
37.5°	1876.5	1868.7	1827.8	1742.6	1648.5	1562.8	1507.6	1514.6	1524.5	1714.5	1342.2
40°	1875.3	1878.4	1879.3	1880.1	1816.0	1734.0	1674.7	1667.5	1665.5	1845.9	1421.8
42.5°	1781.4	1794.2	1835.8	1920.2	1959.2	1921.5	1867.2	1846.3	1835.8	2000.8	1506.2
45°	1637.6	1644.5	1722.4	1887.2	2032.5	2107.3	2066.2	2000.1	1981.3	2143.1	1576.2
47.5°	1563.4	1571.0	1620.1	1799.7	2031.7	2257.3	2281.1	2155.3	2121.6	2266.9	1636.6
50°	1387.0	1402.8	1464.6	1647.5	1957.5	2326.3	2505.8	2340.2	2270.5	2387.4	1697.2
52.5°	1062.9	1087.3	1156.5	1397.2	1769.5	2292.2	2685.6	2564.4	2466.0	2512.2	1749.2
55°	670.4	688.6	746.7	986.8	1415.5	2114.4	2753.8	2806.9	2719.4	2630.4	1794.2
57.5°	364.5	372.6	394.4	544.8	920.7	1721.3	2654.4	2945.0	2908.6	2730.8	1828.3
58°	326.2	331.7	345.2	472.2	816.6	1613.8	2610.3	2945.4	2927.3	2745.5	1830.9
60°	242.0	239.2	227.2	269.4	454.5	1114.9	2343.8	2827.6	2880.9	2763.5	1818.0
62.5°	212.6	205.9	181.3	178.5	221.1	513.6	1793.4	2422.1	2548.1	2660.8	1739.8
65°	199.8	192.5	160.8	150.6	159.5	217.3	1056.4	1816.5	1974.5	2349.5	1539.7
67.5°	190.2	180.8	147.8	133.7	134.4	143.6	423.5	1144.1	1321.9	1783.8	1197.6
70°	180.9	170.7	136.7	120.5	116.7	113.6	168.4	572.7	734.0	1126.8	763.6
72.5°	171.0	161.0	127.0	110.1	102.7	92.3	110.0	234.3	327.2	533.1	346.4
75°	156.7	147.6	117.2	100.9	90.3	76.4	83.0	122.3	146.8	212.3	166.9
77.5°	139.0	131.6	106.3	93.3	80.1	62.1	63.9	84.9	94.1	121.5	99.2
80°	99.9	102.5	94.6	83.9	71.3	50.4	49.0	61.9	66.9	78.1	64.6
82.5°	70.2	71.7	78.3	68.5	58.9	39.6	36.2	43.6	46.6	51.3	34.8
85°	48.4	46.7	53.7	47.7	42.6	26.4	24.8	29.6	31.4	31.9	18.0
87.5°	29.1	29.1	31.0	25.6	22.9	13.7	13.4	16.8	18.0	17.2	9.9
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°	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3
2.5°	933.8	922.1	897.1	877.1	851.9	825.6	810.9	795.3	784.5	776.8	789.2
5°	940.9	916.9	865.4	816.6	762.6	706.4	663.8	624.2	596.7	579.5	595.7
7.5°	952.1	915.3	833.2	749.7	652.8	559.3	475.8	423.5	392.9	377.9	387.3
10°	965.0	912.6	795.4	659.1	520.4	402.7	340.3	319.1	312.2	309.4	310.7
12.5°	975.7	907.0	749.0	549.4	390.8	318.0	300.0	299.5	301.0	301.3	301.8
15°	983.3	898.8	680.2	435.2	312.5	289.7	288.8	291.7	294.5	295.7	296.3
17.5°	988.4	881.8	602.4	344.1	280.0	276.0	278.3	282.1	285.1	285.9	286.6
20°	987.9	856.8	509.8	286.9	262.3	262.3	266.3	269.3	269.4	268.4	268.9
22.5°	982.8	822.7	420.0	256.6	246.7	249.5	253.4	250.6	239.1	231.5	232.0
25°	974.2	781.9	343.1	237.2	232.1	237.1	235.9	214.8	198.3	190.8	190.8
27.5°	966.6	733.7	284.0	220.4	217.6	223.7	203.2	184.1	177.1	173.7	172.5
30°	961.2	681.7	244.5	204.2	203.9	199.4	176.3	171.0	169.9	167.1	166.1
32.5°	962.5	629.0	219.2	190.0	191.2	170.7	163.4	164.6	163.6	160.6	159.3
35°	973.4	579.0	202.7	177.1	173.7	154.2	155.8	158.0	157.7	153.5	152.2
37.5°	992.9	531.6	191.8	166.4	151.6	145.9	148.6	151.9	151.1	148.3	147.3
40°	1013.3	487.0	182.9	158.0	138.5	140.3	142.6	144.5	145.3	146.1	145.4
42.5°	1033.3	440.5	172.0	149.4	133.1	135.0	136.0	137.9	142.3	145.4	145.3
45°	1045.2	396.7	160.8	137.2	128.8	129.9	129.3	132.9	138.3	143.5	143.6
47.5°	1058.4	362.7	151.9	126.0	124.6	125.5	123.5	127.1	132.1	138.3	139.0
50°	1074.4	342.4	144.8	117.1	119.0	119.0	118.5	121.8	128.8	136.0	137.4
52.5°	1092.6	338.4	138.8	110.6	113.4	113.3	113.8	118.7	126.3	133.4	134.6
55°	1114.7	349.2	132.4	105.8	108.0	108.6	110.3	115.9	122.3	130.4	130.9
57.5°	1140.5	371.0	127.3	102.0	103.0	105.2	107.8	112.9	119.9	128.8	129.3
58°	1144.8	375.6	126.5	101.7	102.0	104.5	107.5	112.4	119.4	129.1	129.6
60°	1144.9	390.9	124.6	100.2	98.2	102.4	105.7	110.6	118.5	130.3	131.4
62.5°	1104.3	390.8	123.3	98.1	94.3	99.4	103.2	109.0	117.7	133.1	135.4
65°	972.4	355.1	117.1	94.8	91.1	96.7	101.0	107.8	120.0	145.3	146.8
67.5°	760.6	291.1	105.3	90.1	87.0	94.1	99.7	107.6	122.5	148.1	149.1
70°	502.9	217.8	92.5	84.9	82.7	91.0	100.4	113.3	119.7	142.1	139.5
72.5°	261.0	152.9	82.1	78.3	77.8	88.2	110.0	112.6	116.9	133.7	130.4
75°	137.0	106.2	73.0	71.0	71.8	87.5	129.8	109.6	113.3	127.9	134.2
77.5°	83.9	85.7	65.2	64.4	66.0	85.5	129.6	105.8	108.0	117.7	124.6
80°	56.1	69.5	59.3	59.4	60.6	78.3	116.4	99.9	101.5	111.3	118.4
82.5°	35.5	41.1	53.8	56.6	55.1	64.6	98.9	91.0	93.3	127.3	134.6
85°	18.0	25.8	46.7	54.5	49.7	45.2	80.2	79.7	80.9	91.8	95.9
87.5°	8.3	14.2	36.5	47.5	37.5	28.2	58.3	59.1	63.7	65.2	65.2
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)