

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: P200588

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-8030-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5532 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

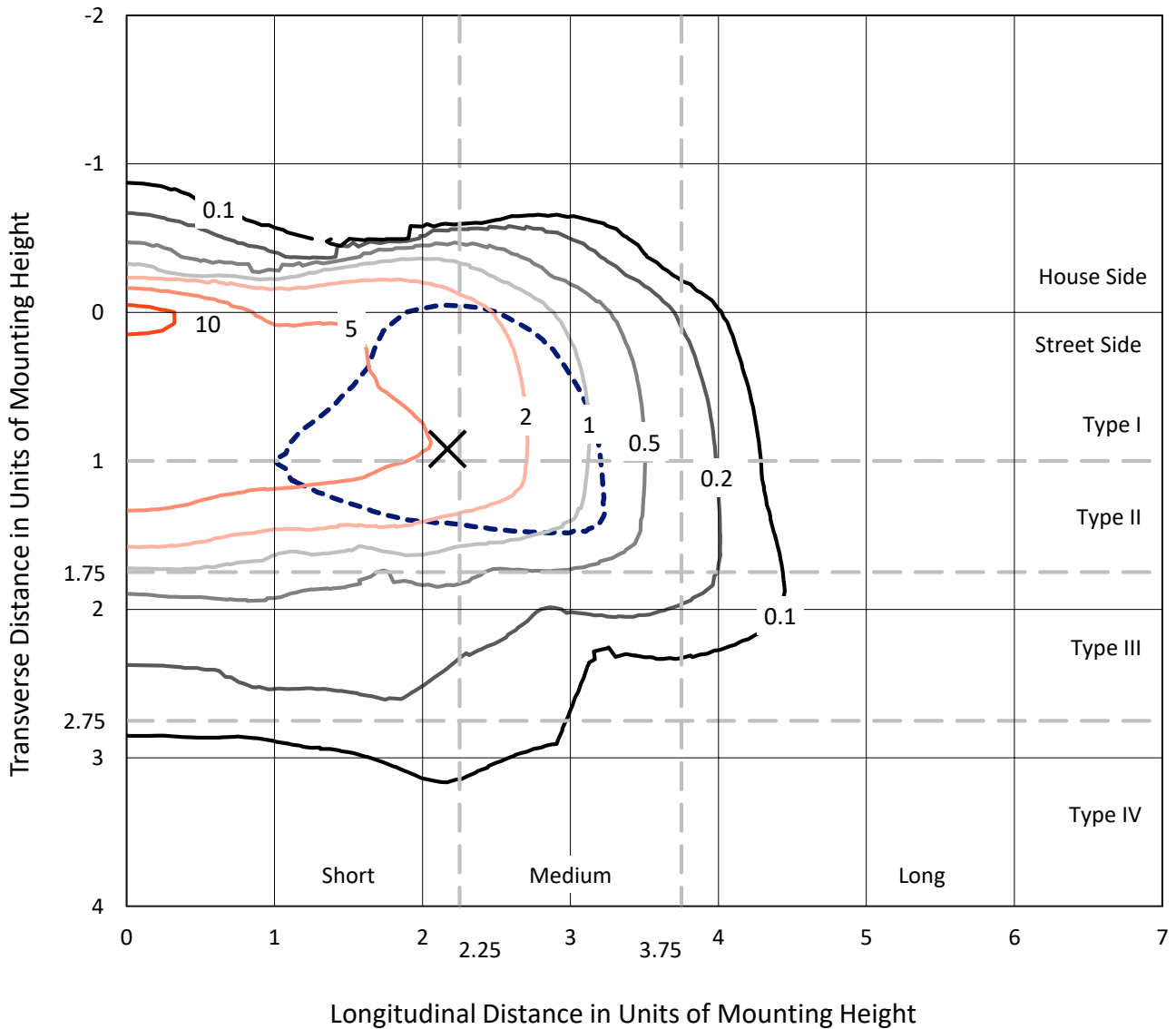


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

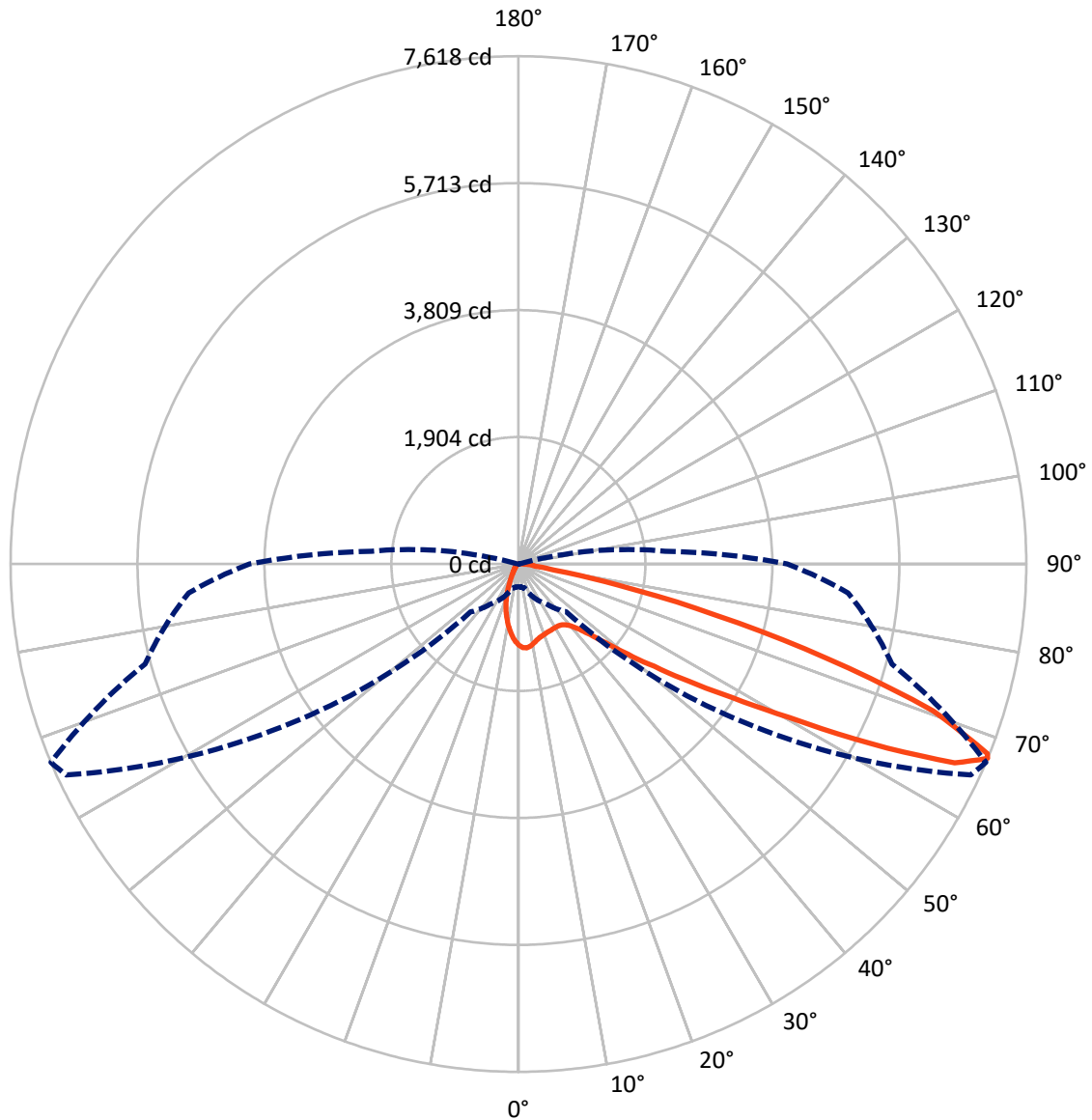


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.4	0.0	574.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4957.6	0.0	4957.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	5532.0	0.0	5532.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.8
10°-20°	211.3	3.8
20°-30°	307.2	5.6
30°-40°	479.2	8.7
40°-50°	848.9	15.3
50°-60°	1343.4	24.3
60°-70°	1538.6	27.8
70°-80°	638.2	11.5
80°-90°	65.9	1.2
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°	5532.0	100.0
0°-180°	5532.0	100.0



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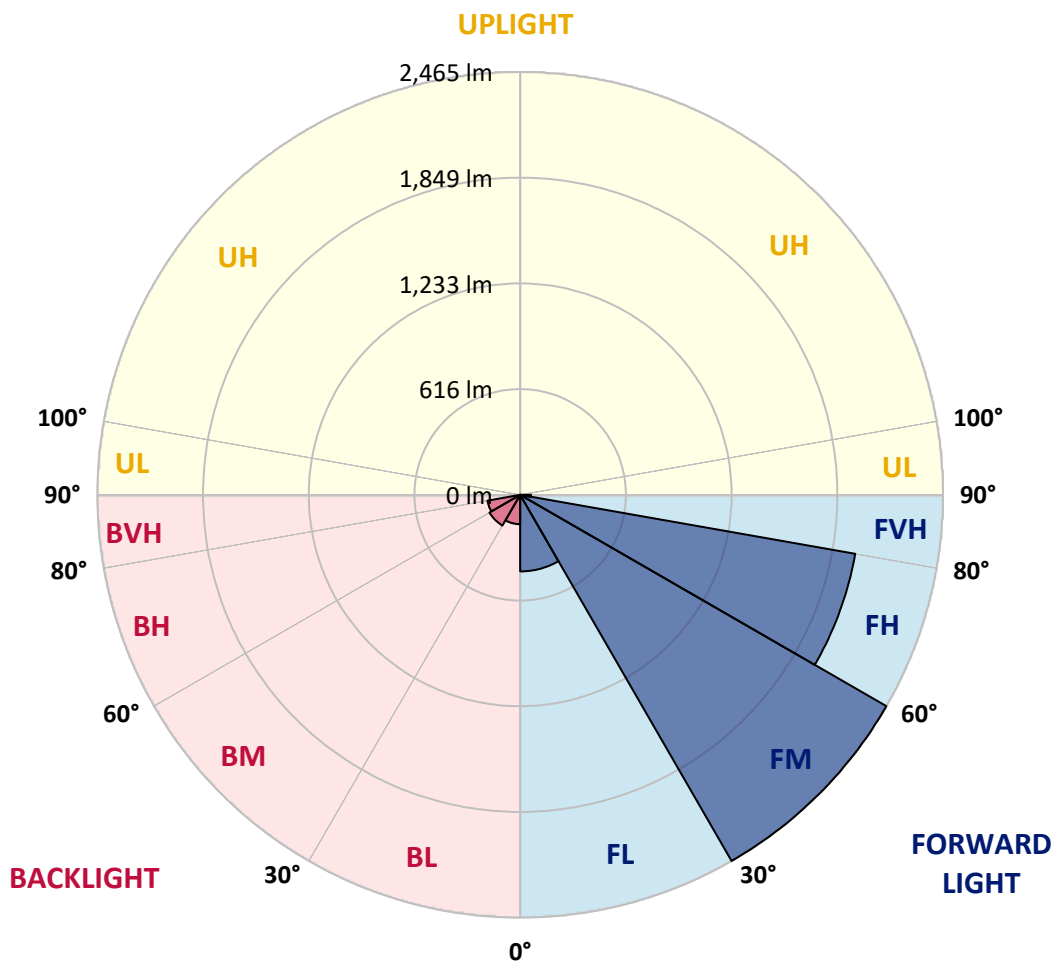
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.4	8.1			
FM (30°-60°)	2465.1	44.6			
FH (60°-80°)	1983.2	35.9			G2/5000
FVH (80°-90°)	63.0	1.1			G1/100
BL (0°-30°)	171.4	3.1	B1/500		
BM (30°-60°)	206.4	3.7	B0/220		
BH (60°-80°)	193.6	3.5	B1/500		G1/500
BVH (80°-90°)	3.0	0.1			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1261.3	1263.9	1263.6	1265.5	1270.0	1270.3	1265.8	1257.1	1255.2	1243.9	1224.2
5°	1163.2	1170.6	1175.2	1193.6	1214.2	1239.0	1257.8	1264.5	1263.6	1255.5	1225.8
7.5°	1051.3	1058.7	1063.8	1085.5	1112.9	1155.5	1204.2	1244.2	1247.8	1256.5	1224.5
10°	976.7	978.0	985.1	1005.8	1034.5	1078.0	1136.1	1206.1	1216.8	1248.7	1221.3
12.5°	915.4	916.4	925.7	948.0	978.7	1022.5	1083.5	1164.5	1181.0	1239.0	1220.7
15°	871.9	875.4	883.8	907.0	939.6	983.2	1045.8	1133.9	1153.5	1235.5	1226.5
17.5°	857.3	861.2	863.8	880.6	910.2	952.8	1017.1	1113.9	1136.1	1237.4	1237.8
20°	872.5	875.4	869.6	873.8	892.2	930.3	992.9	1096.8	1123.2	1239.7	1252.3
22.5°	929.0	930.3	914.4	896.1	892.8	913.8	973.8	1083.2	1111.6	1245.8	1269.4
25°	1025.8	1023.5	997.7	958.0	920.6	910.9	962.5	1074.8	1105.8	1252.3	1287.1
27.5°	1142.6	1145.8	1110.3	1052.5	981.2	930.3	960.9	1071.3	1103.2	1256.8	1302.6
30°	1284.5	1289.1	1248.4	1175.8	1073.5	978.0	975.8	1070.6	1101.6	1253.9	1303.9
32.5°	1429.4	1434.9	1403.0	1328.1	1196.8	1058.0	1009.3	1077.7	1104.8	1243.9	1296.5
35°	1581.1	1588.8	1567.5	1503.3	1363.9	1173.5	1068.4	1099.3	1120.0	1242.9	1289.1
37.5°	1790.5	1797.6	1757.6	1689.5	1566.2	1328.4	1163.2	1140.0	1155.8	1258.4	1291.0
40°	2103.2	2102.2	1998.9	1894.7	1788.6	1525.3	1296.5	1213.6	1221.6	1305.2	1314.9
42.5°	2443.9	2442.3	2289.7	2131.2	2035.4	1767.6	1471.7	1340.7	1335.2	1391.3	1376.8
45°	2706.5	2706.2	2581.7	2403.2	2332.6	2045.7	1698.2	1517.5	1509.1	1531.4	1491.1
47.5°	2818.5	2820.4	2757.8	2632.3	2662.0	2422.0	1983.8	1773.7	1761.1	1752.1	1690.8
50°	2731.4	2735.3	2740.4	2715.9	2903.7	2927.6	2366.8	2134.8	2128.6	2088.3	1992.5
52.5°	2446.8	2466.5	2527.1	2604.9	2987.6	3412.9	2967.3	2583.3	2550.4	2507.5	2401.9
55°	1967.3	1988.9	2104.1	2292.9	2862.7	3731.7	3808.8	3161.5	3106.7	2978.6	2826.3
57.5°	1302.0	1335.5	1502.7	1742.7	2500.0	3783.0	4648.4	3964.0	3773.0	3422.2	3250.6
60°	717.3	749.6	930.9	1148.4	1805.7	3529.4	5213.0	5008.8	4671.3	3918.2	3765.9
62.5°	441.7	459.2	593.1	795.4	1082.9	2785.6	5329.8	6321.7	5931.0	4556.7	4388.3
65°	351.7	359.1	424.6	650.2	776.3	1656.9	4952.6	7322.6	7192.3	5329.8	4945.5
67°	341.4	344.3	375.3	558.2	731.8	1015.8	4149.2	7485.6	7617.9	5797.7	4963.0
67.5°	343.6	346.9	376.2	532.7	730.5	933.5	3872.3	7421.4	7588.5	5834.8	4885.8
70°	331.4	341.4	430.8	532.4	694.7	775.7	2319.0	6430.1	6604.1	5421.5	4145.6
72.5°	117.5	118.1	186.2	430.8	755.4	784.1	1164.5	4713.9	4842.6	4147.3	2988.9
75°	69.7	59.4	62.0	122.6	721.8	761.5	671.8	3012.1	3060.2	2376.5	1513.6
77.5°	48.1	41.9	43.2	54.2	274.9	750.9	533.7	1570.8	1519.4	833.5	322.3
80°	27.4	24.2	25.8	47.4	100.0	700.5	503.4	636.9	543.1	141.3	89.1
82.5°	14.5	12.3	14.8	39.0	69.7	436.6	504.3	307.8	243.9	47.8	60.7
85°	5.2	4.2	7.1	26.8	46.5	133.9	467.5	258.8	203.3	23.2	46.1
87.5°	1.0	1.0	2.9	11.0	18.7	41.0	276.5	153.6	102.9	13.9	31.6
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°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1216.1	1202.3	1183.5	1160.6	1133.5	1109.7	1091.9	1073.5	1069.6	1063.2	1062.2
5°	1208.1	1184.2	1137.7	1084.5	1027.7	976.4	934.8	897.7	881.2	867.0	865.4
7.5°	1196.1	1160.3	1081.3	995.4	906.7	826.0	757.6	709.2	664.7	643.4	640.2
10°	1182.3	1131.0	1017.7	898.6	776.0	662.1	560.5	475.3	423.7	393.0	389.1
12.5°	1169.4	1102.2	952.8	798.3	635.3	483.0	352.4	271.0	216.8	194.9	192.3
15°	1163.2	1079.0	892.2	695.7	488.2	307.5	192.6	149.1	131.3	126.2	125.8
17.5°	1162.6	1059.3	832.8	589.5	342.0	178.8	125.5	114.5	111.0	109.7	109.7
20°	1162.3	1040.6	773.4	479.5	217.2	119.1	104.5	102.0	99.4	97.8	97.8
22.5°	1165.8	1023.8	711.5	367.2	136.8	96.5	92.0	89.4	86.2	83.9	83.6
25°	1169.4	1010.9	648.2	261.4	99.1	83.9	79.4	75.8	71.3	68.4	68.1
27.5°	1170.0	994.8	580.5	174.9	82.9	73.2	67.4	62.0	56.8	53.9	53.6
30°	1160.3	967.7	505.3	118.1	73.2	63.6	55.8	50.0	45.2	42.9	42.9
32.5°	1141.3	934.1	422.7	89.1	65.2	54.5	46.1	40.7	37.4	36.5	36.1
35°	1124.2	898.0	337.8	75.5	58.4	46.1	37.8	34.2	32.3	31.9	31.6
37.5°	1114.2	868.9	258.1	68.4	51.9	38.7	31.9	29.4	28.4	27.7	28.1
40°	1121.9	844.7	190.7	62.6	45.5	32.3	27.1	25.8	24.8	24.5	24.5
42.5°	1155.8	840.6	141.7	57.4	39.4	26.8	23.6	22.6	21.9	21.6	21.9
45°	1244.9	866.4	110.0	52.6	33.2	22.6	20.0	19.7	19.4	19.4	19.4
47.5°	1378.8	919.6	91.6	47.1	27.7	19.4	17.4	17.1	16.8	17.1	17.1
50°	1605.6	1017.1	82.0	41.6	22.9	16.5	14.8	14.8	14.8	14.8	15.2
52.5°	1950.5	1208.7	75.5	36.1	18.7	13.9	12.6	12.6	12.9	12.9	13.2
55°	2334.8	1463.0	69.7	30.7	15.8	11.6	10.3	10.6	11.0	11.3	11.3
57.5°	2751.7	1744.7	64.9	25.2	13.6	9.4	8.7	9.0	9.4	10.0	10.0
60°	3254.8	2049.6	57.8	19.7	11.3	7.4	6.8	7.4	8.4	9.0	9.4
62.5°	3807.2	2344.5	48.7	15.5	9.4	5.8	5.5	6.8	8.1	8.7	9.0
65°	4184.7	2437.1	37.4	12.6	7.1	4.2	4.5	6.1	7.7	8.7	8.7
67°	4031.7	2209.6	30.7	10.6	5.8	3.2	4.2	6.1	7.7	8.4	8.7
67.5°	3925.6	2120.6	29.4	10.3	5.5	3.2	4.2	6.1	7.7	8.7	8.7
70°	3194.1	1593.0	24.5	7.7	4.5	2.9	3.5	5.8	7.4	8.4	8.4
72.5°	2219.3	982.2	21.9	5.5	3.9	2.6	3.2	5.5	7.1	8.1	8.4
75°	1055.1	355.6	18.7	4.2	3.5	2.3	2.9	5.5	7.1	8.1	8.1
77.5°	215.2	82.6	15.2	3.5	2.9	2.3	2.6	5.2	6.8	7.7	7.7
80°	70.7	31.9	11.3	3.2	2.9	2.3	2.6	4.8	6.8	7.4	7.7
82.5°	51.0	16.1	7.4	3.2	2.9	2.3	2.3	4.8	6.5	7.4	7.4
85°	39.0	11.3	4.8	3.2	2.9	2.3	2.3	4.5	6.1	7.1	7.1
87.5°	25.8	4.5	3.9	3.2	2.9	2.3	2.3	4.5	5.8	6.8	7.1
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)