

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: P270157

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-SL3-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5523.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

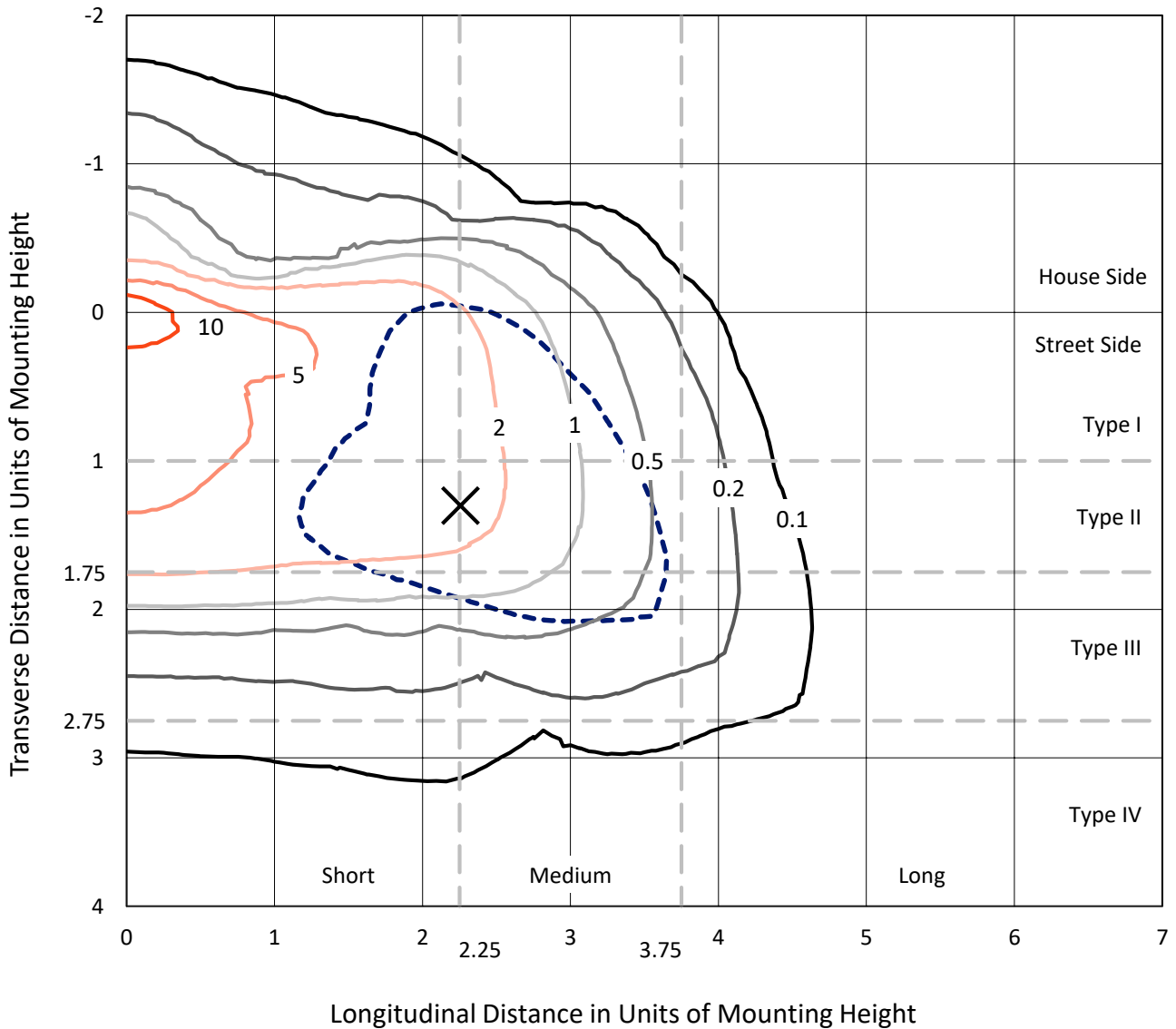
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

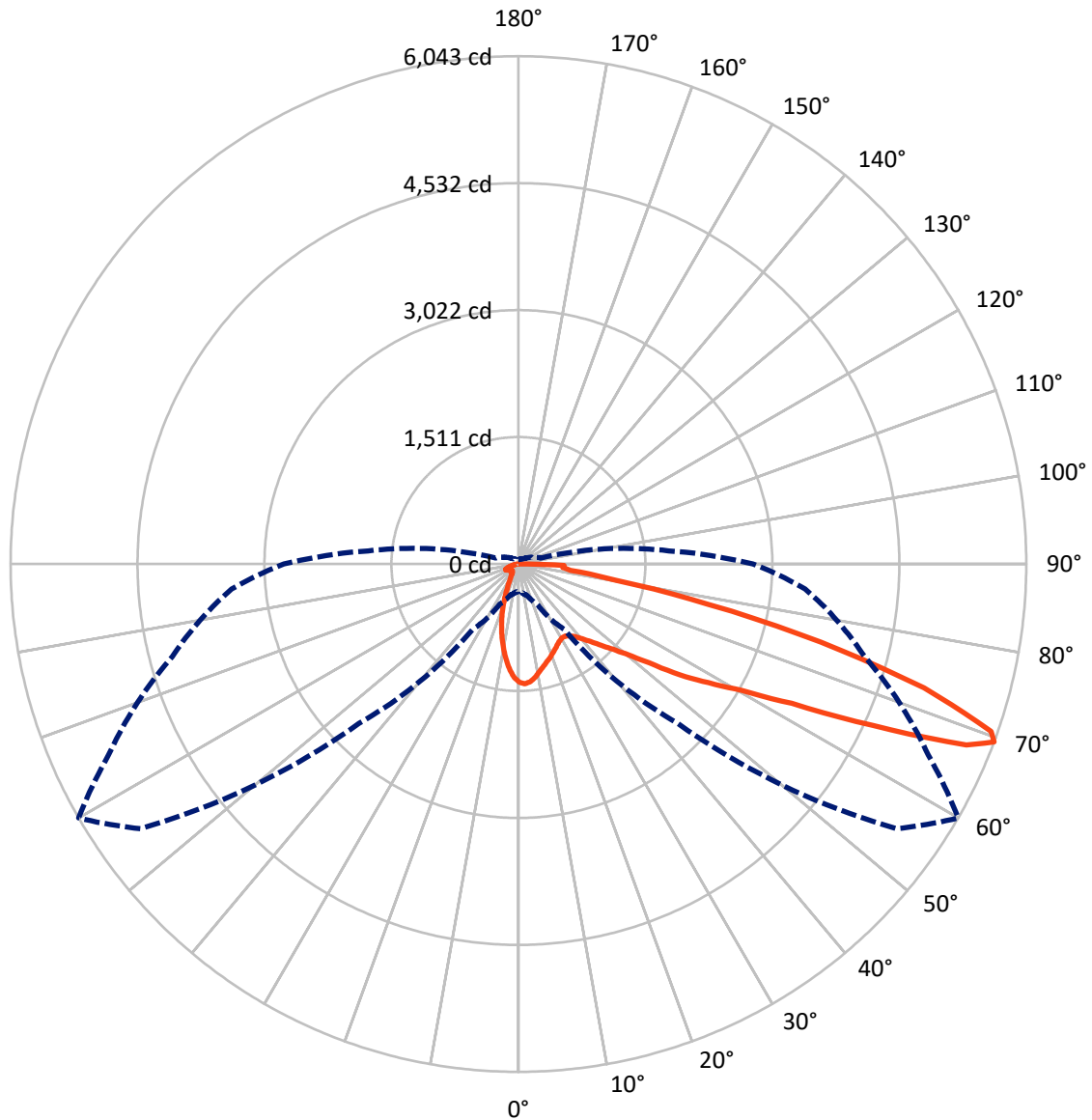
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	785.9	0.0	785.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4737.9	0.0	4737.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	5523.8	0.0	5523.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	2.2
10°-20°	253.6	4.6
20°-30°	323.1	5.8
30°-40°	444.2	8.0
40°-50°	720.7	13.0
50°-60°	1155.8	20.9
60°-70°	1538.3	27.8
70°-80°	830.6	15.0
80°-90°	138.6	2.5
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°	5523.8	100.0
0°-180°	5523.8	100.0



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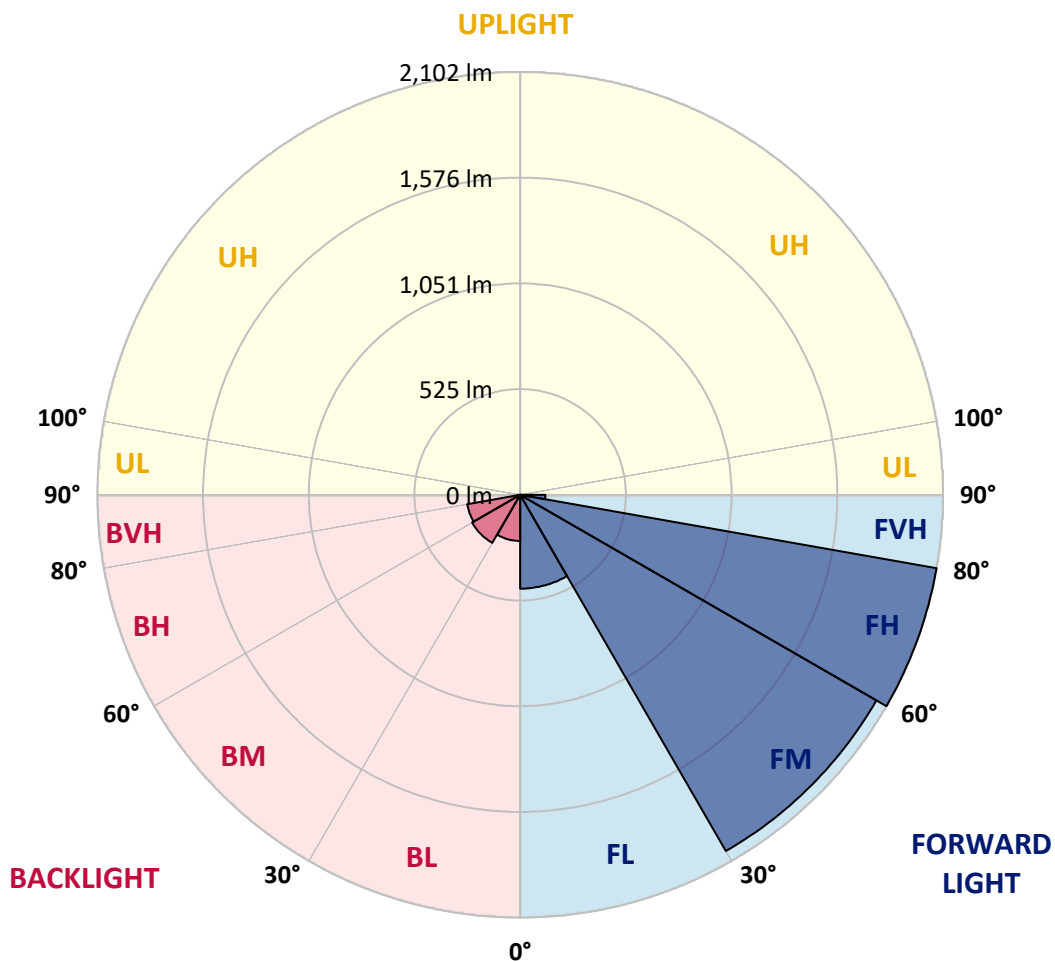
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.4	8.4			
FM	(30°-60°)	2044.6	37.0			
FH	(60°-80°)	2101.7	38.0			G2/5000
FVH	(80°-90°)	125.2	2.3			G2/225
BL	(0°-30°)	229.3	4.2	B1/500		
BM	(30°-60°)	276.1	5.0	B1/1000		
BH	(60°-80°)	267.2	4.8	B1/500		G1/500
BVH	(80°-90°)	13.3	0.2			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1436.4	1439.5	1438.2	1437.4	1439.9	1436.1	1428.3	1426.0	1422.2	1413.5	1398.5
5°	1382.4	1392.1	1391.6	1398.8	1410.8	1413.9	1410.5	1411.0	1404.1	1393.1	1368.3
7.5°	1289.3	1293.3	1295.4	1311.3	1333.1	1350.7	1365.7	1370.5	1367.2	1357.9	1325.9
10°	1193.3	1196.5	1201.6	1220.0	1247.7	1272.0	1300.2	1316.6	1323.6	1321.9	1286.2
12.5°	1110.8	1114.0	1120.6	1141.4	1174.7	1204.4	1245.6	1265.8	1282.4	1292.3	1253.9
15°	1037.0	1043.8	1050.3	1074.3	1111.4	1150.5	1197.0	1222.7	1248.3	1270.5	1225.3
17.5°	979.3	986.2	989.9	1011.9	1051.3	1099.3	1153.9	1184.0	1215.9	1252.2	1197.0
20°	945.9	949.1	947.5	959.7	995.3	1046.3	1110.8	1145.8	1184.4	1235.2	1168.8
22.5°	936.7	936.8	931.0	929.7	952.7	995.5	1064.9	1107.3	1154.9	1224.0	1144.4
25°	959.3	958.4	942.4	929.3	931.8	956.9	1020.7	1070.1	1130.1	1221.5	1125.8
27.5°	1009.7	1012.1	988.3	963.8	939.4	938.6	987.0	1039.1	1109.8	1232.6	1117.9
30°	1080.4	1084.4	1059.0	1027.8	982.1	944.6	973.9	1020.7	1097.2	1255.2	1116.5
32.5°	1157.7	1162.0	1142.9	1110.0	1050.3	980.9	983.0	1022.2	1096.7	1286.9	1125.4
35°	1240.2	1245.1	1235.2	1207.4	1140.9	1047.9	1017.7	1048.1	1114.0	1335.5	1149.8
37.5°	1332.2	1339.7	1342.4	1315.9	1245.1	1136.1	1074.6	1097.2	1153.2	1403.1	1194.3
40°	1465.0	1475.3	1474.5	1436.6	1364.3	1255.4	1162.3	1168.2	1214.4	1493.3	1265.6
42.5°	1718.9	1721.1	1654.6	1572.2	1495.6	1380.9	1265.8	1261.0	1298.7	1607.3	1370.5
45°	2042.0	2033.3	1885.5	1726.2	1632.8	1525.0	1400.5	1377.1	1405.7	1746.7	1501.7
47.5°	2310.3	2290.0	2103.2	1883.2	1777.9	1681.5	1558.7	1517.7	1533.4	1904.6	1671.4
50°	2403.3	2388.1	2233.4	2014.1	1915.4	1872.6	1753.6	1695.5	1699.8	2093.1	1870.2
52.5°	2383.4	2381.1	2277.9	2100.2	2044.0	2073.3	2029.5	1950.8	1909.2	2302.3	2084.7
55°	2336.1	2340.7	2303.3	2200.6	2191.0	2267.1	2390.0	2331.8	2202.5	2513.3	2306.5
57.5°	2172.0	2183.8	2266.0	2326.8	2427.6	2540.8	2680.4	2663.8	2518.0	2741.4	2570.1
60°	1749.9	1777.0	1997.6	2302.3	2671.3	3025.1	3087.6	3049.0	2843.7	3024.6	2918.4
62.5°	1226.0	1254.4	1516.3	1993.2	2631.2	3572.1	3815.5	3649.8	3311.2	3441.5	3369.1
65°	656.4	670.0	870.2	1383.0	2221.4	3684.9	4879.4	4627.2	4051.4	3955.7	3754.6
67.5°	362.0	369.6	446.2	698.3	1422.7	3244.9	5557.1	5747.5	4976.4	4298.1	3684.4
69°	327.4	334.3	384.6	528.8	952.1	2683.0	5490.9	6043.0	5382.0	4264.3	3425.1
70°	320.2	326.7	371.7	487.5	770.7	2211.4	5269.2	5967.4	5478.7	4142.9	3198.8
72.5°	288.1	295.2	338.9	437.8	658.5	1102.6	4173.7	5045.5	4974.1	3592.1	2426.3
75°	268.8	275.2	349.4	428.9	630.5	697.8	2751.6	3718.5	3656.5	2512.7	1308.3
77.5°	115.1	114.4	162.0	362.8	639.9	675.6	1478.5	2323.0	2119.5	1074.1	375.8
80°	76.8	75.5	76.8	106.7	586.8	679.4	774.6	1179.1	890.7	273.8	185.2
82.5°	66.1	65.0	67.6	65.0	206.3	775.3	658.5	627.0	423.6	155.5	91.7
85°	44.6	42.7	58.2	58.4	97.3	689.0	741.8	529.7	342.7	92.3	45.4
87.5°	21.3	20.8	33.9	41.3	57.1	279.9	832.3	542.8	345.6	47.3	21.6
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°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1393.9	1383.0	1372.3	1359.6	1346.2	1331.2	1323.7	1316.2	1314.4	1312.2	1304.8
5°	1355.5	1340.0	1313.3	1283.9	1253.0	1223.0	1200.0	1185.6	1174.7	1169.1	1159.2
7.5°	1305.9	1283.1	1236.4	1185.9	1133.8	1086.3	1045.2	1019.2	994.8	983.3	970.2
10°	1258.6	1224.7	1152.2	1077.4	1002.8	931.0	863.5	815.8	773.4	749.5	732.7
12.5°	1218.1	1171.7	1071.0	969.9	867.5	765.3	664.1	584.6	518.2	483.3	465.3
15°	1178.5	1122.5	994.0	865.5	734.0	595.0	462.2	372.0	317.0	295.2	287.6
17.5°	1142.9	1071.0	916.6	760.4	596.4	428.2	310.6	261.0	239.8	232.8	230.2
20°	1104.1	1019.0	836.2	650.6	452.8	299.3	242.5	220.7	212.1	210.1	208.9
22.5°	1066.7	967.8	759.3	532.9	325.2	231.0	208.3	199.3	197.9	199.9	199.9
25°	1035.0	921.9	676.5	409.8	238.8	194.6	186.5	184.4	189.5	196.4	197.7
27.5°	1011.3	884.3	588.1	302.5	190.3	169.2	168.9	172.4	185.0	198.3	201.0
30°	995.1	848.4	493.7	218.3	159.5	148.8	153.3	160.6	179.0	197.9	203.0
32.5°	986.8	822.0	395.2	168.9	136.6	130.8	138.0	147.1	165.2	182.7	189.5
35°	993.2	802.6	302.3	140.9	120.6	116.2	123.5	132.3	143.0	150.5	155.5
37.5°	1017.2	794.9	228.1	126.2	109.7	105.5	111.3	116.3	120.6	122.8	125.1
40°	1069.0	803.2	182.7	118.8	103.6	98.2	100.6	102.4	105.1	107.3	108.3
42.5°	1145.2	828.0	163.9	115.8	100.3	92.5	92.0	92.9	96.3	100.3	101.1
45°	1252.0	871.7	162.6	117.7	98.8	88.0	85.7	86.7	92.0	98.2	99.3
47.5°	1388.3	938.5	173.2	123.2	100.2	85.7	81.7	83.1	89.7	97.9	99.3
50°	1553.4	1031.6	191.1	131.5	105.9	86.1	80.3	81.0	88.0	97.1	98.5
52.5°	1748.6	1163.7	210.6	139.5	112.1	89.7	81.3	79.5	85.9	94.0	95.5
55°	1965.5	1333.1	230.5	146.8	115.3	94.0	83.5	77.3	81.9	88.7	89.9
57.5°	2231.7	1570.1	265.2	153.7	117.4	96.8	85.7	75.3	76.8	81.7	82.7
60°	2592.2	1905.1	326.4	165.2	122.2	97.9	85.3	73.4	71.8	74.5	75.0
62.5°	3024.2	2269.2	377.3	179.7	130.3	98.8	83.8	72.0	67.6	67.6	68.0
65°	3280.7	2366.6	349.0	191.6	136.9	97.9	81.9	70.6	64.3	61.4	61.7
67.5°	3063.2	2081.4	299.1	193.9	136.6	94.2	79.1	68.4	61.2	56.6	56.4
69°	2790.9	1795.8	276.7	187.6	130.3	89.4	75.3	65.7	58.7	53.9	53.5
70°	2571.2	1621.5	262.0	180.6	123.2	85.9	72.4	63.2	56.9	52.3	51.7
72.5°	1869.5	1062.5	223.9	155.2	101.7	72.0	62.4	55.4	50.8	48.0	47.5
75°	934.1	506.7	181.6	125.9	78.0	57.6	51.3	46.4	44.0	43.5	43.2
77.5°	306.9	232.1	130.0	94.0	57.9	45.0	41.3	37.9	37.4	38.9	38.4
80°	168.6	135.0	82.5	62.2	39.4	33.1	32.6	30.7	31.5	34.1	33.6
82.5°	85.9	70.2	50.9	37.4	26.7	23.7	26.0	24.9	26.0	28.2	27.9
85°	42.4	38.4	32.2	22.6	17.5	15.2	18.4	19.3	19.8	21.6	21.6
87.5°	24.6	22.6	17.1	10.7	8.9	8.1	10.7	10.4	12.2	13.4	13.0
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)