

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: P191889

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6105 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

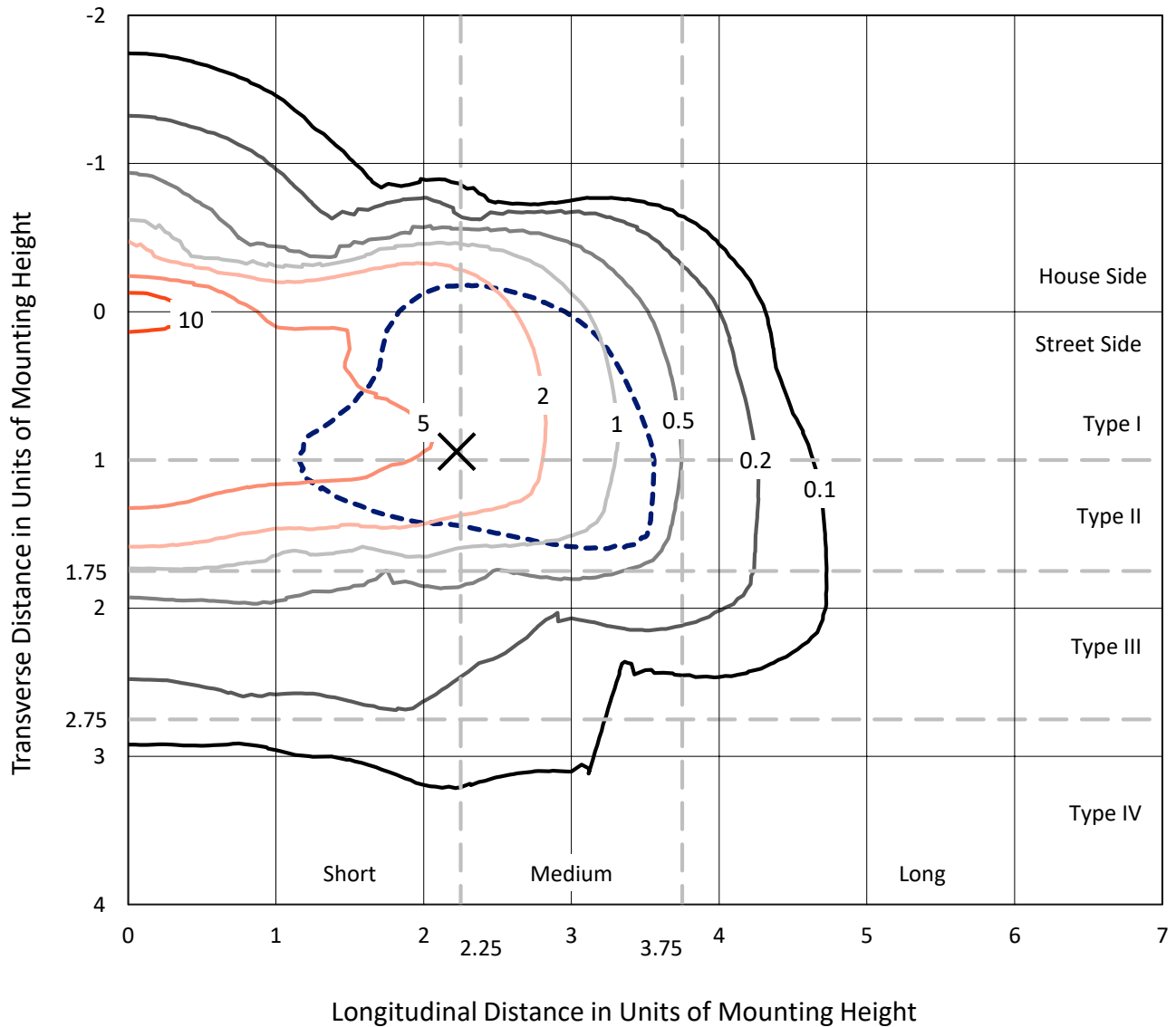
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191889
 CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-7050

Iso-Footcandle Lines of Horizontal Illumination

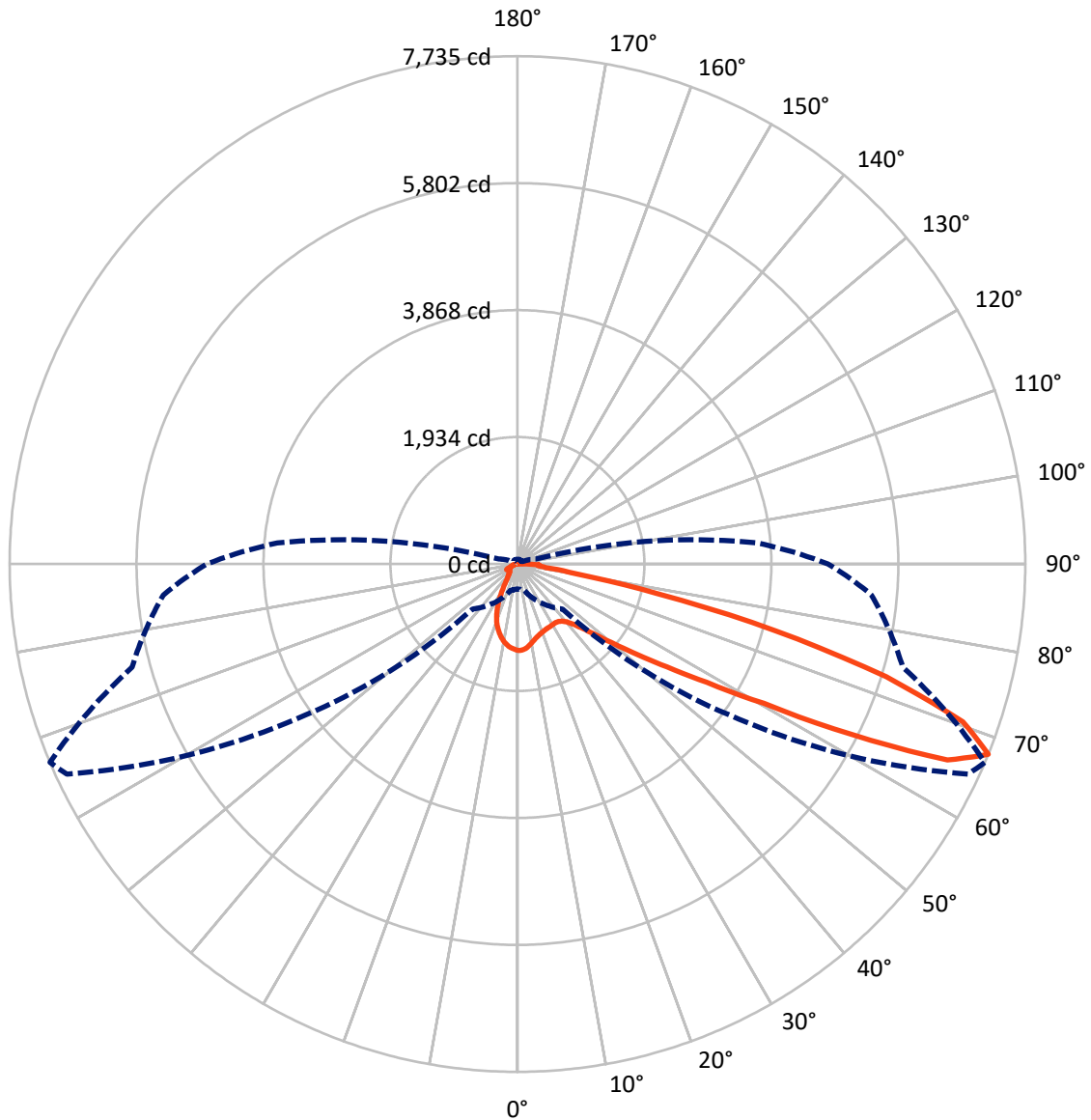
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191889
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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.5	0.0	1011.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	5093.5	0.0	5093.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	6105.0	0.0	6105.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	1.8
10°-20°	259.9	4.3
20°-30°	352.4	5.8
30°-40°	500.9	8.2
40°-50°	838.1	13.7
50°-60°	1325.8	21.7
60°-70°	1689.0	27.7
70°-80°	884.7	14.5
80°-90°	141.9	2.3
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°	6105.0	100.0
0°-180°	6105.0	100.0



REPORT NUMBER: P191889

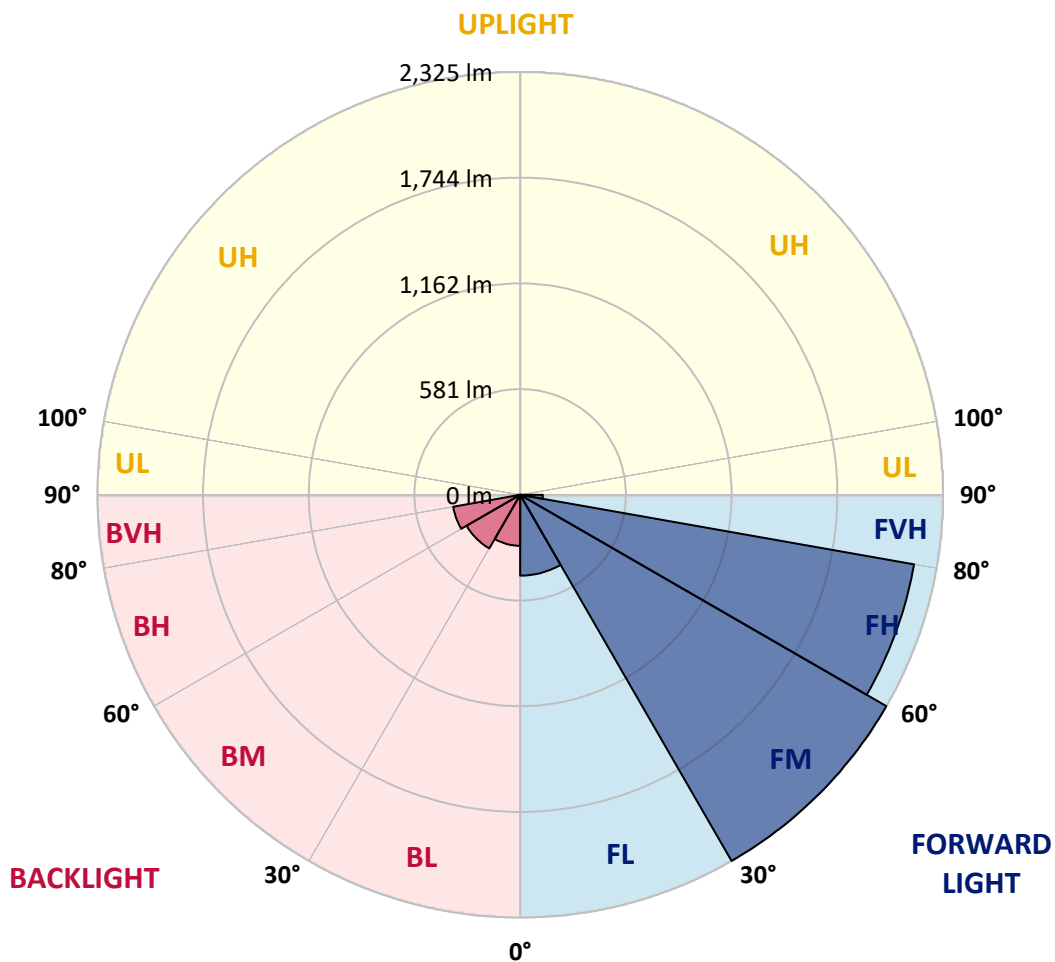
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.3	7.3			
FM (30°-60°)	2324.9	38.1			
FH (60°-80°)	2199.5	36.0			G2/5000
FVH (80°-90°)	124.8	2.0			G2/225
BL (0°-30°)	280.4	4.6	B1/500		
BM (30°-60°)	339.9	5.6	B1/1000		
BH (60°-80°)	374.1	6.1	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 II Short





REPORT NUMBER: P191889

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1262.6	1264.8	1271.4	1275.6	1294.6	1302.7	1308.4	1314.1	1315.0	1317.7	1315.0
5°	1130.2	1134.7	1147.0	1160.9	1197.6	1226.5	1256.9	1288.5	1294.3	1314.7	1320.4
7.5°	1027.5	1026.3	1036.5	1053.1	1090.7	1130.8	1184.1	1247.0	1259.3	1305.4	1327.7
10°	952.6	951.6	962.5	979.6	1015.5	1053.4	1113.6	1199.7	1217.2	1290.6	1334.6
12.5°	897.2	897.5	908.3	927.3	963.7	1001.9	1063.0	1154.0	1176.2	1273.5	1341.8
15°	860.4	862.8	871.6	891.7	927.3	965.5	1025.4	1119.6	1144.6	1259.9	1350.0
17.5°	848.1	852.0	855.0	869.8	900.2	938.4	997.1	1094.4	1120.8	1250.6	1357.2
20°	859.5	864.0	858.3	863.4	882.7	916.4	974.8	1074.5	1101.6	1240.1	1358.1
22.5°	908.6	912.8	896.0	881.2	880.0	900.5	956.5	1058.8	1086.8	1232.2	1358.4
25°	995.0	997.7	969.4	935.1	901.7	894.7	943.5	1048.0	1077.8	1225.3	1352.7
27.5°	1101.0	1103.1	1070.6	1020.0	952.9	908.3	939.0	1041.7	1072.7	1219.3	1343.0
30°	1229.8	1239.8	1196.1	1132.3	1034.4	948.3	948.0	1038.4	1067.0	1209.1	1324.1
32.5°	1361.7	1365.9	1335.8	1271.1	1144.3	1018.8	973.3	1040.8	1065.4	1196.7	1300.0
35°	1495.4	1500.8	1481.2	1429.1	1294.6	1122.0	1022.7	1054.9	1074.8	1192.5	1283.1
37.5°	1668.5	1675.7	1648.6	1588.4	1477.3	1262.0	1104.9	1090.4	1103.4	1204.5	1278.0
40°	1942.1	1938.8	1859.6	1769.9	1677.2	1441.2	1222.3	1150.6	1158.2	1243.4	1293.7
42.5°	2260.7	2252.5	2116.1	1975.3	1897.0	1657.9	1377.6	1255.1	1253.6	1319.8	1348.7
45°	2514.7	2508.1	2385.3	2211.6	2149.0	1904.8	1578.5	1410.8	1399.6	1441.2	1450.5
47.5°	2652.3	2652.6	2581.9	2440.1	2438.6	2218.5	1836.5	1636.0	1616.7	1636.3	1626.3
50°	2604.2	2610.5	2603.0	2557.8	2702.9	2629.8	2173.3	1950.0	1911.1	1930.4	1892.2
52.5°	2371.1	2379.3	2423.8	2493.1	2814.0	3126.8	2668.3	2340.1	2295.0	2288.1	2245.6
55°	1958.1	1968.0	2058.9	2247.1	2721.6	3460.7	3449.2	2837.5	2765.5	2700.2	2682.1
57.5°	1349.6	1366.2	1512.5	1791.9	2422.6	3561.5	4379.2	3546.5	3400.2	3172.0	3176.2
60°	760.8	780.0	952.6	1206.3	1819.3	3451.9	5086.7	4620.4	4311.5	3724.4	3755.7
62.5°	483.8	504.6	635.5	838.1	1091.6	2861.9	5376.6	6113.3	5721.0	4405.4	4436.1
65°	391.7	400.7	462.4	691.8	792.7	1724.2	5156.5	7343.1	7196.8	5269.7	5126.4
67.5°	382.3	385.4	417.3	580.7	760.2	969.1	4113.1	7573.1	7735.4	6076.9	5414.0
70°	377.8	388.4	470.3	554.3	728.0	817.4	2471.7	6942.7	7198.9	6287.9	5031.3
72.5°	183.3	182.7	236.6	501.3	820.1	847.8	1269.9	5617.5	5874.6	5447.7	4134.4
75°	147.8	135.2	129.2	183.6	788.5	875.5	809.2	3865.3	4051.4	3652.5	2541.5
77.5°	140.3	125.2	114.7	115.0	333.3	928.5	685.5	2139.3	2193.5	1649.8	696.4
80°	116.2	102.4	94.8	106.9	161.4	884.2	741.2	968.2	888.4	405.2	231.8
82.5°	80.7	73.5	71.4	89.7	129.2	630.1	861.9	520.2	436.2	202.9	143.0
85°	51.5	44.0	48.8	65.3	100.6	290.8	887.8	405.5	322.4	128.9	80.7
87.5°	23.8	19.3	24.1	36.1	65.6	100.3	844.8	455.5	332.1	68.0	50.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191889

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1317.4	1311.7	1307.2	1298.8	1289.4	1280.4	1272.3	1262.0	1259.0	1256.3	1260.5
5°	1321.7	1315.9	1299.4	1273.5	1244.9	1218.1	1191.3	1168.4	1154.3	1146.4	1150.9
7.5°	1328.0	1319.8	1285.5	1238.0	1186.5	1139.5	1091.0	1052.2	1023.6	1010.1	1014.0
10°	1333.7	1318.0	1262.0	1190.7	1115.4	1045.6	969.1	905.9	858.9	834.2	840.3
12.5°	1336.1	1311.1	1229.2	1131.7	1028.4	926.1	813.5	718.9	651.5	626.8	621.7
15°	1338.5	1303.3	1193.1	1064.5	923.3	778.5	620.8	507.6	451.6	439.2	436.5
17.5°	1339.1	1289.7	1152.2	991.7	800.2	603.0	424.5	352.5	352.8	372.7	375.1
20°	1332.8	1269.6	1102.5	901.1	652.7	417.0	291.4	279.1	324.5	374.2	380.2
22.5°	1318.3	1242.8	1046.2	795.4	483.8	274.6	225.5	239.0	297.7	358.6	365.5
25°	1300.0	1210.3	979.6	672.9	320.3	196.3	189.1	205.6	245.4	286.0	289.9
27.5°	1275.0	1171.7	905.0	532.6	208.0	161.7	166.5	177.6	193.9	211.9	213.8
30°	1242.8	1125.7	825.2	388.4	157.2	145.4	152.3	158.4	165.3	175.5	176.4
32.5°	1205.7	1081.4	743.3	268.2	139.4	137.0	142.4	145.4	150.8	157.2	157.8
35°	1174.7	1039.3	658.4	189.7	131.9	130.7	134.3	135.5	140.6	147.5	148.1
37.5°	1157.0	1004.9	570.8	152.9	126.7	124.9	127.0	127.0	134.3	144.5	146.0
40°	1158.2	986.0	483.2	138.2	122.5	120.1	120.4	120.4	129.8	140.9	141.8
42.5°	1191.0	990.8	405.5	132.5	119.2	116.5	115.0	115.9	123.7	131.0	131.6
45°	1268.1	1024.8	332.7	128.9	115.9	115.0	111.7	111.4	114.4	117.7	117.7
47.5°	1394.5	1091.9	283.3	126.4	113.2	112.9	109.0	105.1	104.8	106.0	106.0
50°	1600.1	1207.5	250.2	123.7	111.4	109.0	104.5	98.4	96.3	97.2	97.2
52.5°	1908.4	1413.8	237.5	120.1	107.5	103.6	98.4	92.4	90.6	90.9	90.9
55°	2312.7	1730.5	235.7	115.9	103.3	96.9	92.7	88.2	86.1	86.7	86.7
57.5°	2806.8	2168.5	267.9	109.3	97.5	90.3	87.9	84.9	83.4	84.3	84.0
60°	3407.4	2741.7	397.4	102.4	91.8	84.3	84.3	81.9	80.7	81.6	81.3
62.5°	4099.2	3400.2	558.8	97.2	85.8	79.5	80.7	79.5	78.3	78.9	78.6
65°	4712.8	3829.2	523.2	93.3	79.8	75.0	77.1	76.5	75.6	76.2	75.9
67.5°	4730.5	3670.2	293.8	89.1	74.1	70.4	73.5	73.2	72.6	73.2	72.9
70°	4221.8	3099.1	165.6	81.3	68.0	65.0	69.2	68.9	68.3	69.5	69.2
72.5°	3382.4	2248.9	121.0	71.7	62.0	59.3	64.1	63.8	63.8	65.6	64.7
75°	1946.3	1157.3	96.6	61.4	55.7	53.6	57.8	58.1	58.7	61.1	59.3
77.5°	554.9	360.7	78.9	52.1	47.9	47.0	51.2	51.8	52.1	54.8	52.4
80°	206.2	166.2	65.0	43.7	39.1	39.4	43.4	44.3	44.6	47.3	44.3
82.5°	131.6	109.6	52.7	33.7	30.7	30.4	35.2	36.4	36.4	36.7	34.9
85°	76.8	65.6	39.7	24.4	21.7	20.8	26.2	28.3	27.4	26.8	25.6
87.5°	51.5	45.2	24.4	13.5	11.7	11.1	15.4	16.9	16.3	15.4	14.5
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)