

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: P647764

Luminaire Tested: **GALN-SA2A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4203.1 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

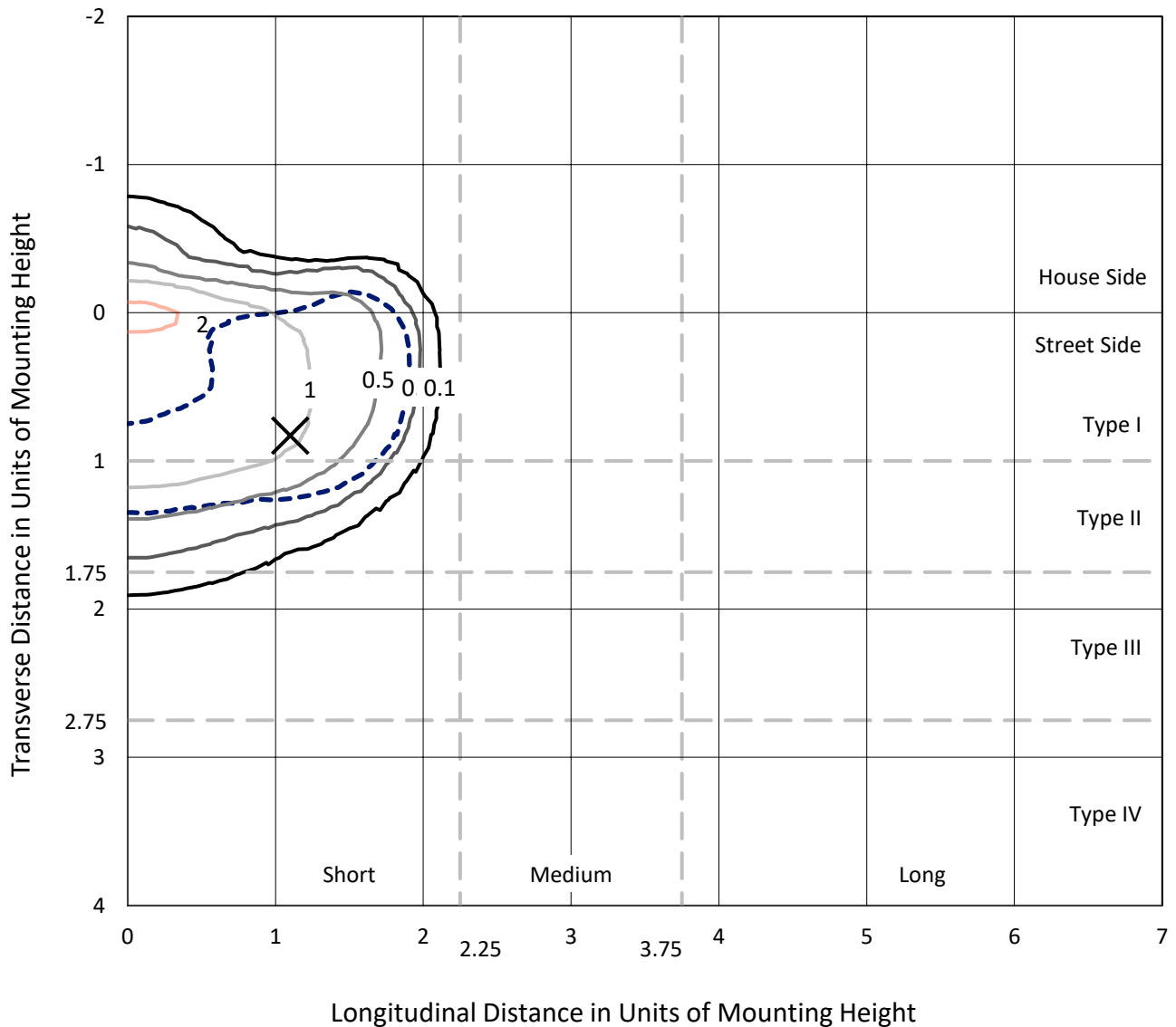
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

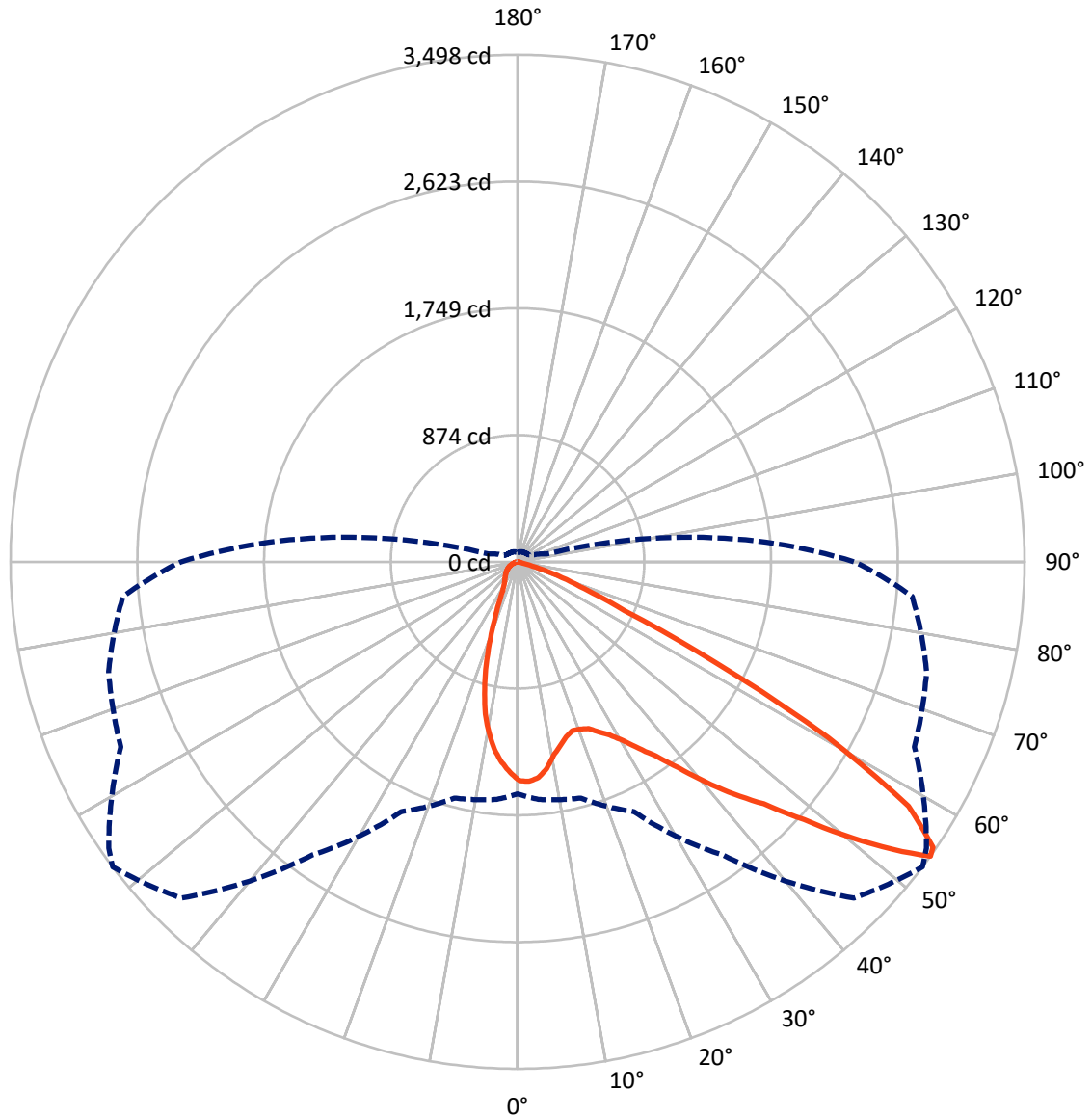
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	695.4	0.0	695.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3507.7	0.0	3507.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	4203.1	0.0	4203.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	3.1
10°-20°	297.0	7.1
20°-30°	422.1	10.0
30°-40°	651.3	15.5
40°-50°	1021.2	24.3
50°-60°	1186.3	28.2
60°-70°	448.3	10.7
70°-80°	42.6	1.0
80°-90°	4.8	0.1
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°	4203.1	100.0
0°-180°	4203.1	100.0

Coefficient of Utilization

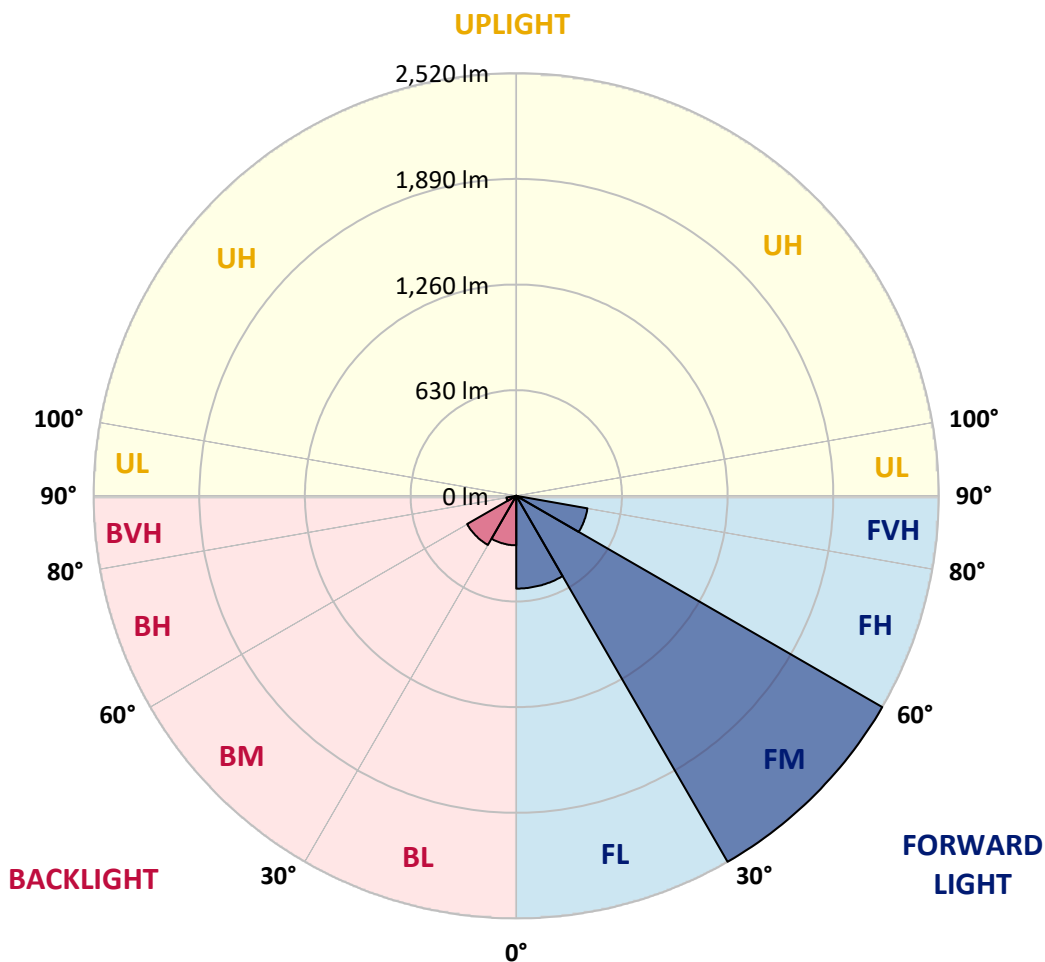


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.5	13.2			
FM (30°-60°)	2520.5	60.0			
FH (60°-80°)	431.3	10.3			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	295.1	7.0	B1/500		
BM (30°-60°)	338.4	8.1	B1/1000		
BH (60°-80°)	59.6	1.4	B0/110		G0/110
BVH (80°-90°)	2.3	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7
2.5°	1501.9	1488.6	1501.9	1503.4	1512.8	1521.4	1516.0	1528.5	1521.4	1513.6	1511.3
5°	1380.5	1398.5	1399.3	1427.5	1421.2	1472.9	1495.6	1489.3	1527.7	1525.4	1519.9
7.5°	1271.7	1264.6	1274.0	1306.9	1348.4	1407.9	1440.8	1440.0	1494.8	1534.0	1530.1
10°	1170.7	1169.9	1189.5	1215.3	1250.5	1313.2	1358.6	1381.3	1466.6	1526.1	1534.8
12.5°	1102.5	1099.4	1120.6	1141.7	1197.3	1245.8	1303.8	1314.7	1412.6	1498.7	1512.8
15°	1057.9	1065.0	1066.5	1107.2	1142.5	1206.7	1252.1	1274.8	1387.6	1476.8	1530.8
17.5°	1050.1	1059.5	1060.3	1093.9	1131.5	1185.5	1225.5	1256.0	1366.4	1487.8	1531.6
20°	1065.7	1060.3	1065.0	1086.1	1122.9	1174.6	1232.5	1242.7	1359.4	1493.3	1540.2
22.5°	1110.4	1108.8	1097.1	1114.3	1140.1	1194.2	1249.0	1264.6	1379.7	1521.4	1547.3
25°	1159.7	1168.3	1157.4	1155.0	1173.0	1226.3	1299.1	1319.4	1447.8	1572.3	1569.2
27.5°	1252.1	1243.5	1243.5	1232.5	1227.8	1253.7	1353.1	1386.8	1523.8	1638.1	1594.3
30°	1340.6	1350.0	1342.9	1346.8	1315.5	1313.2	1429.8	1471.3	1658.5	1738.3	1647.5
32.5°	1480.7	1468.2	1479.9	1469.8	1428.3	1386.0	1534.0	1577.0	1821.3	1853.4	1727.4
35°	1597.4	1591.9	1642.0	1640.5	1573.1	1531.6	1644.4	1708.6	1934.9	1991.2	1821.3
37.5°	1763.4	1753.2	1810.4	1837.8	1777.5	1715.6	1802.5	1876.9	2040.6	2101.7	1917.6
40°	1934.1	1959.9	2036.7	2082.1	2017.9	1935.7	1995.9	2018.7	2111.0	2173.7	1983.4
42.5°	2150.2	2187.8	2266.1	2305.2	2299.7	2210.5	2192.5	2191.7	2161.9	2153.3	2032.0
45°	2357.7	2343.6	2464.3	2549.6	2618.5	2592.7	2382.0	2358.5	2242.6	2183.9	2044.5
47.5°	2448.6	2443.9	2526.1	2678.0	2912.9	2945.0	2657.7	2566.8	2378.8	2312.3	2112.6
50°	2331.1	2355.3	2436.9	2605.2	2965.4	3210.5	2995.9	2873.8	2537.9	2469.0	2273.9
52.5°	1947.4	1963.8	2041.4	2255.1	2786.9	3367.1	3320.1	3249.6	2829.9	2715.6	2555.1
54°	1601.3	1645.2	1687.4	1902.0	2469.0	3280.1	3497.8	3443.8	3020.2	2920.7	2732.0
55°	1394.6	1420.4	1451.0	1664.7	2248.9	3132.9	3477.5	3482.2	3147.8	2985.0	2851.1
57.5°	1018.8	1036.8	1005.5	1100.2	1544.2	2544.1	3180.7	3307.5	3320.1	3081.3	2923.9
60°	778.3	786.1	750.9	765.8	960.0	1746.2	2460.3	2613.0	2995.1	2692.9	2476.8
62.5°	603.7	605.3	604.5	630.3	661.6	1027.4	1538.7	1674.1	2064.8	1912.2	1682.0
65°	444.7	437.7	450.2	528.5	564.5	646.0	810.5	909.1	1122.1	947.5	677.3
67.5°	288.1	290.5	303.0	393.1	483.9	495.6	498.8	490.9	491.7	270.9	169.9
70°	173.0	177.0	173.0	222.4	346.1	355.5	324.9	317.1	247.4	64.2	63.4
72.5°	102.6	97.1	86.9	95.5	144.1	172.3	155.0	154.3	97.1	37.6	37.6
75°	43.1	39.2	32.1	29.0	38.4	36.8	36.8	32.9	25.8	25.1	23.5
77.5°	8.6	8.6	6.3	7.0	9.4	11.0	13.3	13.3	15.7	15.7	14.9
80°	0.0	0.8	2.3	4.7	7.0	10.2	11.7	11.7	13.3	13.3	11.0
82.5°	0.0	0.8	2.3	4.7	6.3	9.4	11.7	11.7	13.3	14.1	11.7
85°	0.0	0.8	2.3	3.9	6.3	7.8	7.8	7.0	5.5	4.7	3.1
87.5°	0.0	0.0	0.8	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7	1509.7
2.5°	1516.7	1516.0	1497.2	1466.6	1459.6	1433.8	1430.6	1415.0	1423.6	1394.6	1391.5
5°	1504.2	1494.8	1472.1	1452.5	1395.4	1354.7	1322.6	1283.4	1260.7	1264.6	1249.7
7.5°	1522.2	1498.0	1458.0	1389.9	1320.2	1249.0	1210.6	1130.7	1101.8	1058.7	1052.4
10°	1503.4	1485.4	1423.6	1310.8	1214.5	1111.9	1021.9	933.4	866.1	837.1	830.8
12.5°	1501.9	1470.6	1367.2	1241.9	1102.5	955.3	824.6	714.1	647.5	610.0	601.3
15°	1477.6	1440.0	1303.8	1135.4	942.8	759.5	617.0	510.5	459.6	437.7	444.0
17.5°	1479.9	1423.6	1240.4	1022.7	785.3	557.5	421.3	366.4	353.1	358.6	358.6
20°	1477.6	1386.8	1163.6	892.7	601.3	386.8	309.3	289.7	298.3	315.5	311.6
22.5°	1465.1	1369.5	1093.1	755.6	442.4	286.6	248.2	249.0	262.3	283.4	288.1
25°	1474.5	1331.2	1003.9	617.0	322.6	228.6	215.3	220.8	234.9	250.6	253.7
27.5°	1467.4	1303.8	910.7	479.2	235.7	196.5	195.8	202.0	208.3	220.0	220.0
30°	1475.3	1278.7	819.1	356.3	194.2	180.1	177.0	181.7	187.9	190.3	189.5
32.5°	1504.2	1259.9	713.3	266.2	171.5	164.4	164.4	164.4	163.6	166.8	167.6
35°	1567.6	1263.1	620.1	205.9	156.6	151.1	148.8	145.6	144.1	145.6	146.4
37.5°	1636.5	1261.5	523.8	175.4	145.6	140.9	135.5	130.8	130.0	131.5	129.2
40°	1667.1	1276.4	434.6	157.4	135.5	130.0	121.4	117.4	118.2	119.8	118.2
42.5°	1708.6	1281.1	376.6	143.3	126.1	117.4	112.0	107.3	106.5	108.8	108.1
45°	1707.8	1254.4	315.5	135.5	117.4	108.1	101.0	97.1	97.1	98.7	99.4
47.5°	1757.9	1250.5	270.9	128.4	111.2	101.8	93.2	90.0	89.3	89.3	87.7
50°	1874.6	1305.3	236.5	120.6	103.4	94.7	87.7	83.8	80.6	79.1	78.3
52.5°	2102.4	1476.0	209.8	111.2	94.7	87.7	81.4	78.3	74.4	70.5	69.7
54°	2323.2	1652.2	208.3	103.4	87.7	83.0	77.5	76.0	71.3	65.8	64.2
55°	2422.8	1754.8	213.8	97.1	83.0	79.9	75.2	73.6	68.9	62.6	61.9
57.5°	2505.0	1794.7	210.6	80.6	75.2	74.4	70.5	68.1	62.6	54.0	52.5
60°	2016.3	1357.0	151.1	71.3	68.9	67.3	64.2	62.6	55.6	46.2	45.4
62.5°	1274.0	780.7	96.3	62.6	60.3	57.9	54.0	52.5	46.2	36.8	34.5
65°	542.6	323.4	65.0	55.6	51.7	47.8	44.6	42.3	36.8	27.4	26.6
67.5°	140.9	115.1	54.0	48.5	43.1	37.6	35.2	31.3	25.1	18.8	18.0
70°	63.4	57.9	45.4	40.7	34.5	29.0	25.8	21.9	16.4	12.5	11.7
72.5°	37.6	36.8	34.5	30.5	25.8	21.9	18.8	14.9	11.0	7.0	7.0
75°	23.5	22.7	23.5	21.1	18.0	16.4	14.1	10.2	6.3	3.1	3.1
77.5°	14.1	14.1	14.1	13.3	12.5	12.5	10.2	6.3	3.1	0.8	0.8
80°	11.0	11.0	11.7	11.0	11.0	11.0	8.6	4.7	1.6	0.0	0.0
82.5°	11.0	11.7	13.3	12.5	11.0	9.4	7.8	4.7	1.6	0.0	0.0
85°	3.1	2.3	3.9	5.5	7.8	7.0	5.5	3.9	1.6	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.0	0.0
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)