

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: P269075

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5956.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-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

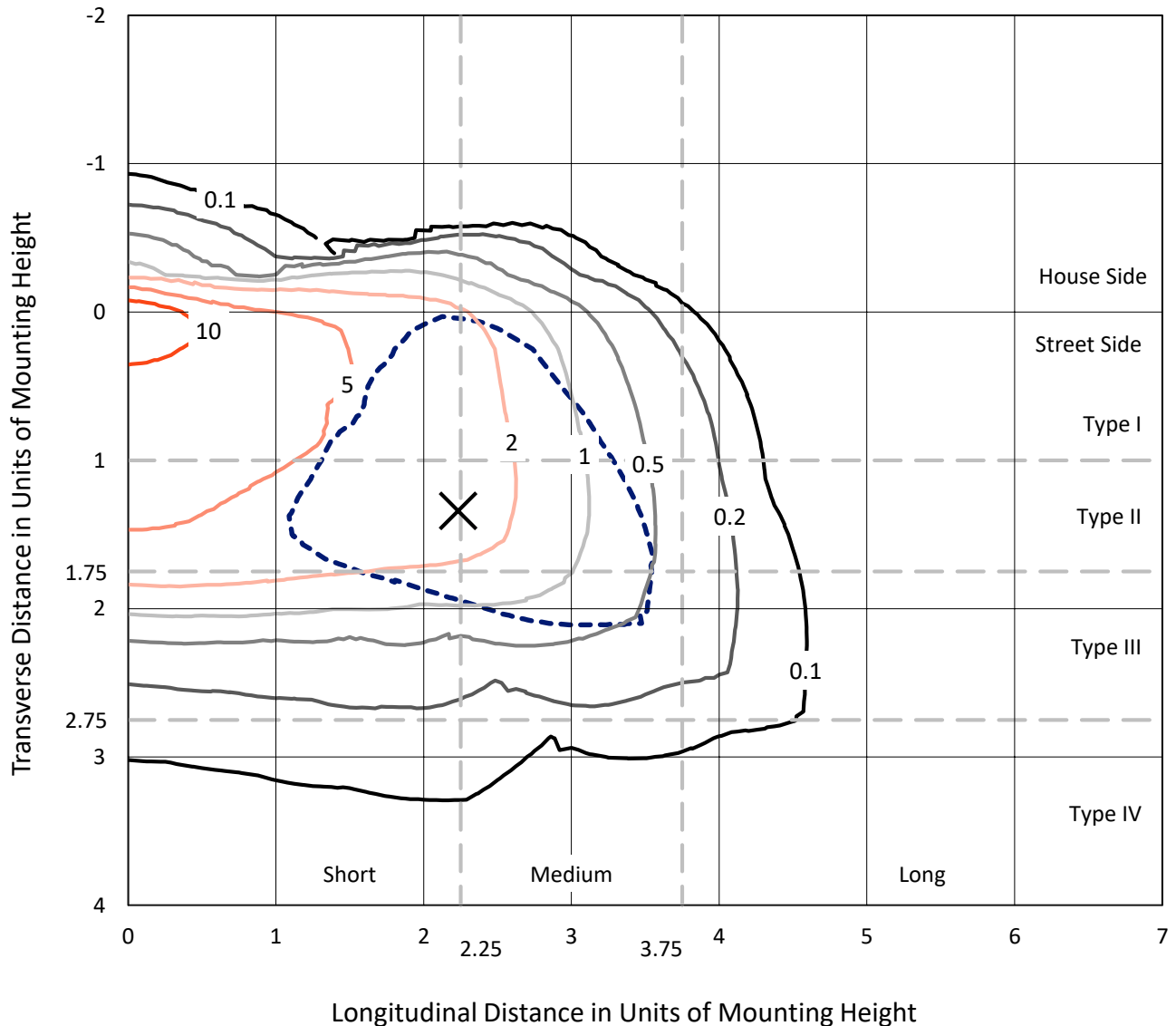


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

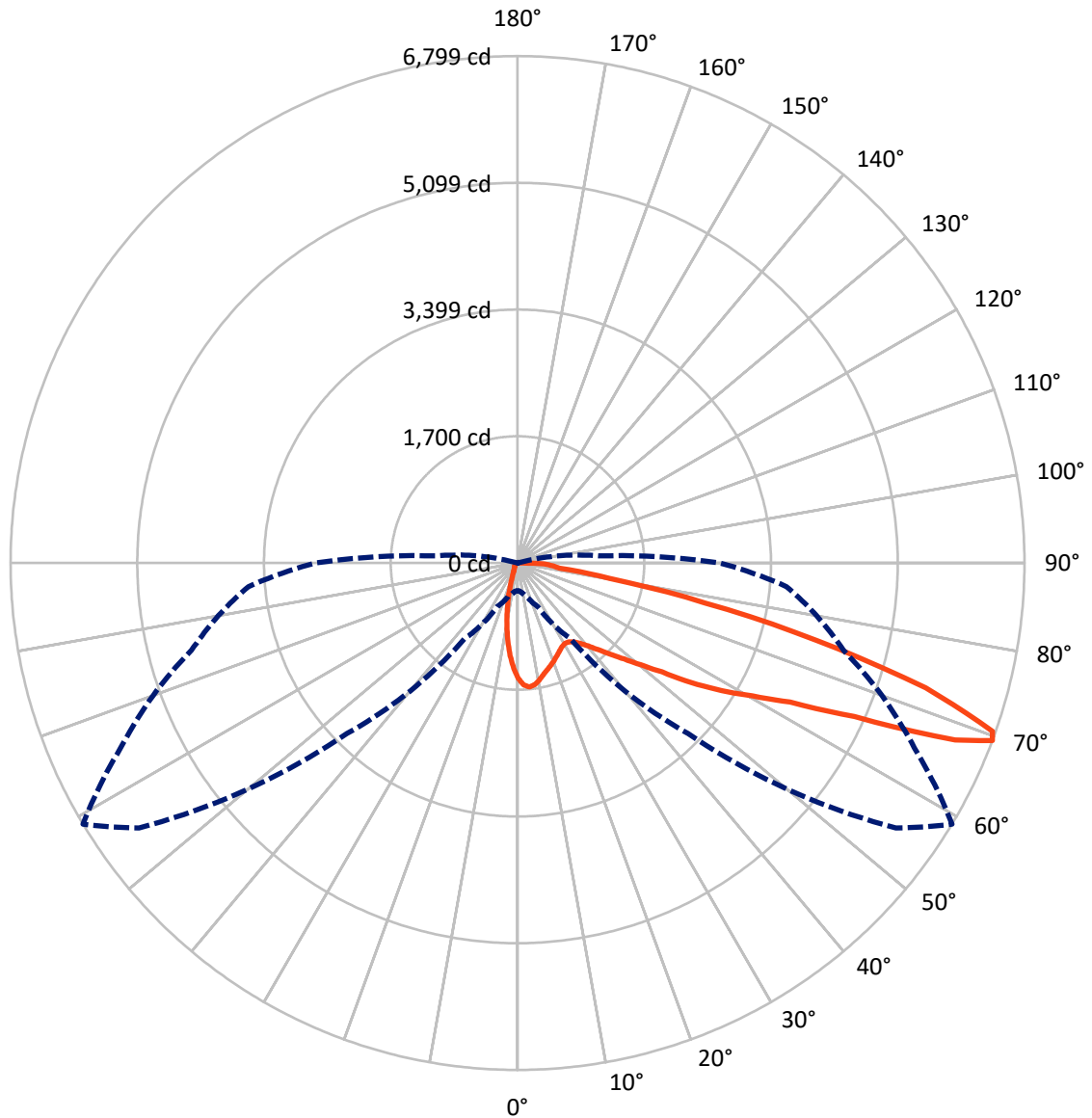


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.1	0.0	485.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5471.5	0.0	5471.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	5956.6	0.0	5956.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	2.1
10°-20°	260.0	4.4
20°-30°	349.9	5.9
30°-40°	508.0	8.5
40°-50°	845.9	14.2
50°-60°	1319.7	22.2
60°-70°	1633.0	27.4
70°-80°	827.6	13.9
80°-90°	86.6	1.5
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°	5956.6	100.0
0°-180°	5956.6	100.0



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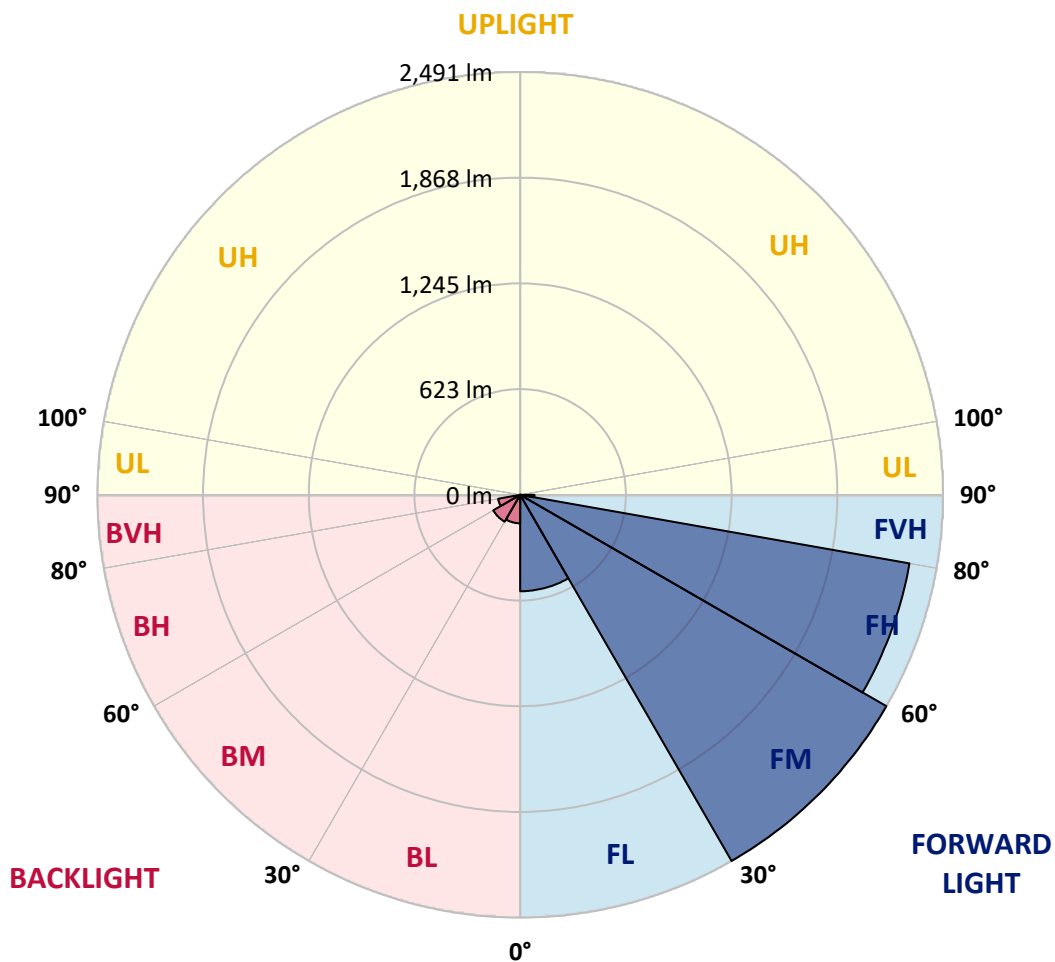
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.9	9.5			
FM (30°-60°)	2490.9	41.8			
FH (60°-80°)	2328.8	39.1			G2/5000
FVH (80°-90°)	83.9	1.4			G1/100
BL (0°-30°)	167.9	2.8	B1/500		
BM (30°-60°)	182.8	3.1	B0/220		
BH (60°-80°)	131.7	2.2	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5
2.5°	1699.4	1698.7	1691.1	1687.8	1681.7	1669.1	1649.1	1638.7	1621.8	1592.5	1553.1
5°	1683.9	1691.9	1696.3	1696.5	1701.0	1696.3	1678.5	1669.7	1646.5	1599.3	1528.6
7.5°	1578.7	1581.7	1594.2	1605.0	1625.9	1645.8	1652.2	1648.4	1634.6	1584.2	1490.1
10°	1466.3	1469.3	1484.1	1498.3	1526.5	1557.1	1589.6	1596.2	1601.9	1562.5	1453.1
12.5°	1369.1	1372.3	1387.4	1405.9	1438.9	1476.6	1526.8	1538.0	1563.2	1542.0	1423.5
15°	1285.7	1287.0	1301.9	1324.7	1364.2	1412.7	1469.5	1487.5	1526.2	1527.5	1397.6
17.5°	1214.6	1218.0	1227.1	1249.0	1292.1	1351.9	1418.3	1443.9	1489.5	1515.4	1372.3
20°	1171.2	1174.5	1174.2	1186.3	1225.1	1289.1	1367.2	1397.9	1453.1	1503.0	1349.7
22.5°	1162.8	1162.8	1154.0	1152.3	1175.3	1228.7	1314.0	1351.4	1420.4	1497.6	1333.9
25°	1192.7	1191.3	1169.5	1151.5	1152.6	1184.7	1262.5	1306.9	1392.8	1501.2	1325.4
27.5°	1256.0	1254.4	1226.7	1192.7	1165.5	1165.1	1223.3	1271.2	1371.0	1518.8	1328.9
30°	1343.7	1343.0	1313.0	1270.2	1220.6	1175.3	1209.8	1253.3	1356.7	1550.5	1336.6
32.5°	1439.3	1438.2	1415.6	1370.5	1307.9	1220.6	1224.0	1260.4	1360.8	1592.5	1355.5
35°	1540.7	1538.9	1529.3	1489.7	1420.8	1304.6	1270.6	1298.8	1386.4	1655.5	1392.5
37.5°	1650.5	1652.2	1659.2	1621.5	1549.0	1422.0	1348.4	1367.5	1437.9	1741.1	1452.7
40°	1812.5	1812.2	1814.4	1765.0	1695.2	1565.9	1457.1	1463.2	1524.2	1854.6	1544.4
42.5°	2106.5	2086.0	2023.7	1922.6	1852.6	1730.2	1594.2	1587.8	1629.5	1995.0	1672.7
45°	2501.6	2457.9	2296.2	2102.6	2012.9	1915.5	1763.0	1742.4	1769.0	2163.7	1830.9
47.5°	2841.5	2796.1	2567.3	2289.8	2183.1	2091.3	1960.7	1923.6	1932.3	2352.8	2031.7
50°	2957.0	2934.9	2735.1	2452.8	2347.7	2312.6	2190.1	2145.0	2132.4	2571.4	2264.4
52.5°	2916.9	2915.3	2782.2	2558.6	2498.5	2541.8	2478.8	2426.5	2380.7	2801.8	2501.3
55°	2852.6	2861.0	2801.5	2651.2	2649.1	2750.9	2873.5	2830.0	2697.3	3052.0	2705.4
57.5°	2675.2	2711.2	2790.7	2826.3	2909.3	3013.3	3202.3	3227.8	3070.9	3243.7	2874.8
60°	2170.6	2249.6	2509.8	2851.6	3244.4	3503.7	3599.0	3620.9	3377.4	3403.0	3103.6
62.5°	1540.7	1621.5	1951.3	2529.5	3249.3	4148.1	4190.1	4104.3	3714.9	3639.2	3498.0
65°	817.8	880.1	1149.7	1826.0	2817.3	4297.6	5223.9	4967.8	4310.3	4103.5	4007.6
67.5°	418.3	437.2	544.4	893.6	1936.7	3817.3	6150.4	6330.6	5336.7	4564.4	3983.1
69°	370.2	381.3	452.3	646.1	1240.2	3233.2	6195.6	6798.6	5873.9	4526.0	3619.6
70°	358.3	368.1	432.9	584.7	969.5	2711.4	6022.9	6757.5	6011.4	4379.7	3348.2
72.5°	304.2	312.6	385.4	516.6	787.9	1346.0	4892.4	5726.1	5394.3	3648.6	2423.4
75°	203.5	231.0	369.8	484.4	732.9	764.5	3225.5	4138.0	3843.8	2460.8	1262.5
77.5°	48.9	52.6	104.5	385.4	670.2	673.0	1658.9	2572.3	2098.1	877.1	298.4
80°	26.3	25.2	29.4	76.4	624.1	631.6	746.8	1248.6	749.0	145.5	98.4
82.5°	18.5	17.4	18.9	32.0	196.4	575.4	540.3	565.3	310.5	56.0	44.1
85°	6.7	6.4	10.4	28.9	61.7	330.8	555.2	466.2	251.6	25.6	32.2
87.5°	2.3	2.1	4.0	15.8	18.9	140.9	342.6	352.3	99.1	15.5	15.1
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°	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5
2.5°	1536.6	1515.7	1477.4	1437.9	1401.5	1357.8	1335.9	1314.3	1305.1	1301.9	1286.1
5°	1492.2	1456.8	1375.2	1293.4	1218.0	1137.9	1085.0	1042.6	1017.6	1005.5	986.2
7.5°	1435.2	1377.3	1253.7	1127.4	1009.9	894.0	808.0	742.0	696.5	674.6	654.9
10°	1379.9	1302.8	1127.1	954.9	795.3	641.7	523.2	437.2	382.3	357.0	340.8
12.5°	1330.5	1230.5	1004.8	786.8	586.5	406.6	286.0	217.6	183.6	171.8	166.0
15°	1286.4	1163.8	889.2	627.1	397.1	232.4	156.2	133.0	127.6	127.6	127.0
17.5°	1244.6	1098.4	777.8	477.3	249.3	142.1	118.8	115.9	115.9	117.1	117.1
20°	1204.4	1036.0	670.0	342.6	156.9	112.8	107.4	106.8	107.4	109.1	109.1
22.5°	1170.1	979.5	569.3	235.0	116.5	101.7	99.1	98.1	98.4	99.4	100.0
25°	1144.5	931.6	474.2	159.3	100.4	92.6	89.7	87.9	86.5	86.5	87.2
27.5°	1128.5	891.3	382.3	115.9	90.3	84.3	79.5	76.7	73.8	72.0	72.8
30°	1116.7	852.9	296.1	94.6	80.8	74.7	68.7	64.3	59.9	57.9	58.6
32.5°	1112.2	821.9	221.3	83.5	72.5	65.7	58.3	52.6	47.8	46.2	46.5
35°	1124.0	797.2	162.1	75.5	65.7	57.2	48.9	42.4	38.7	37.6	38.1
37.5°	1155.0	784.1	121.2	68.7	59.6	50.1	40.8	34.7	32.2	32.2	32.7
40°	1213.6	783.9	97.3	64.0	54.3	43.5	33.6	29.4	27.9	28.7	28.9
42.5°	1299.2	801.6	84.9	59.6	49.4	37.1	27.9	25.0	24.7	25.2	25.6
45°	1416.0	834.3	78.2	56.0	44.5	31.0	23.5	21.6	21.6	22.5	22.8
47.5°	1559.2	882.1	72.5	52.2	39.4	26.0	20.2	18.9	19.3	20.2	20.5
50°	1731.7	942.4	66.7	48.1	35.8	21.6	17.4	16.4	16.9	18.1	18.5
52.5°	1928.0	1023.6	62.0	44.5	31.0	17.8	14.8	14.2	14.8	16.2	16.4
55°	2096.5	1096.4	56.2	41.4	25.0	14.8	12.1	12.1	12.8	14.6	14.8
57.5°	2258.3	1172.5	51.3	35.8	19.6	11.8	10.2	10.4	11.5	13.1	13.5
60°	2496.2	1301.6	45.2	30.0	14.8	9.4	8.4	8.8	10.2	11.8	12.1
62.5°	2900.1	1497.8	39.0	25.0	11.5	7.5	6.7	7.5	9.2	11.0	11.5
65°	3264.5	1577.8	32.0	20.9	8.8	5.7	5.7	6.7	8.8	10.8	11.0
67.5°	3061.5	1328.1	25.0	16.4	6.7	4.4	4.8	6.4	8.4	10.8	11.0
69°	2707.4	1086.0	21.2	13.1	5.7	4.0	4.4	6.4	8.4	10.4	10.8
70°	2431.5	916.8	18.9	11.0	5.0	4.0	4.4	6.1	8.4	10.4	10.8
72.5°	1628.5	495.1	15.1	8.1	4.8	3.8	3.8	6.1	8.1	10.2	10.4
75°	699.9	136.7	12.1	5.7	4.0	3.4	3.4	5.7	7.7	9.8	10.4
77.5°	128.0	34.7	9.8	5.0	4.0	3.4	3.1	5.4	7.5	9.4	9.8
80°	50.8	17.2	7.7	4.4	3.8	3.1	2.6	5.0	7.0	9.2	9.4
82.5°	30.6	9.8	6.4	4.0	3.8	2.6	2.3	4.4	6.7	8.8	9.2
85°	25.0	6.7	5.0	4.0	3.4	2.6	2.1	4.0	6.1	8.4	8.8
87.5°	12.1	4.8	4.8	3.8	3.4	2.6	2.1	3.8	5.7	8.1	8.4
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)