

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: P299995

Luminaire Tested: **GLNA-AF-02-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-SL3-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6022.2 lumens
Efficiency: N/A
Efficacy: 91.2 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

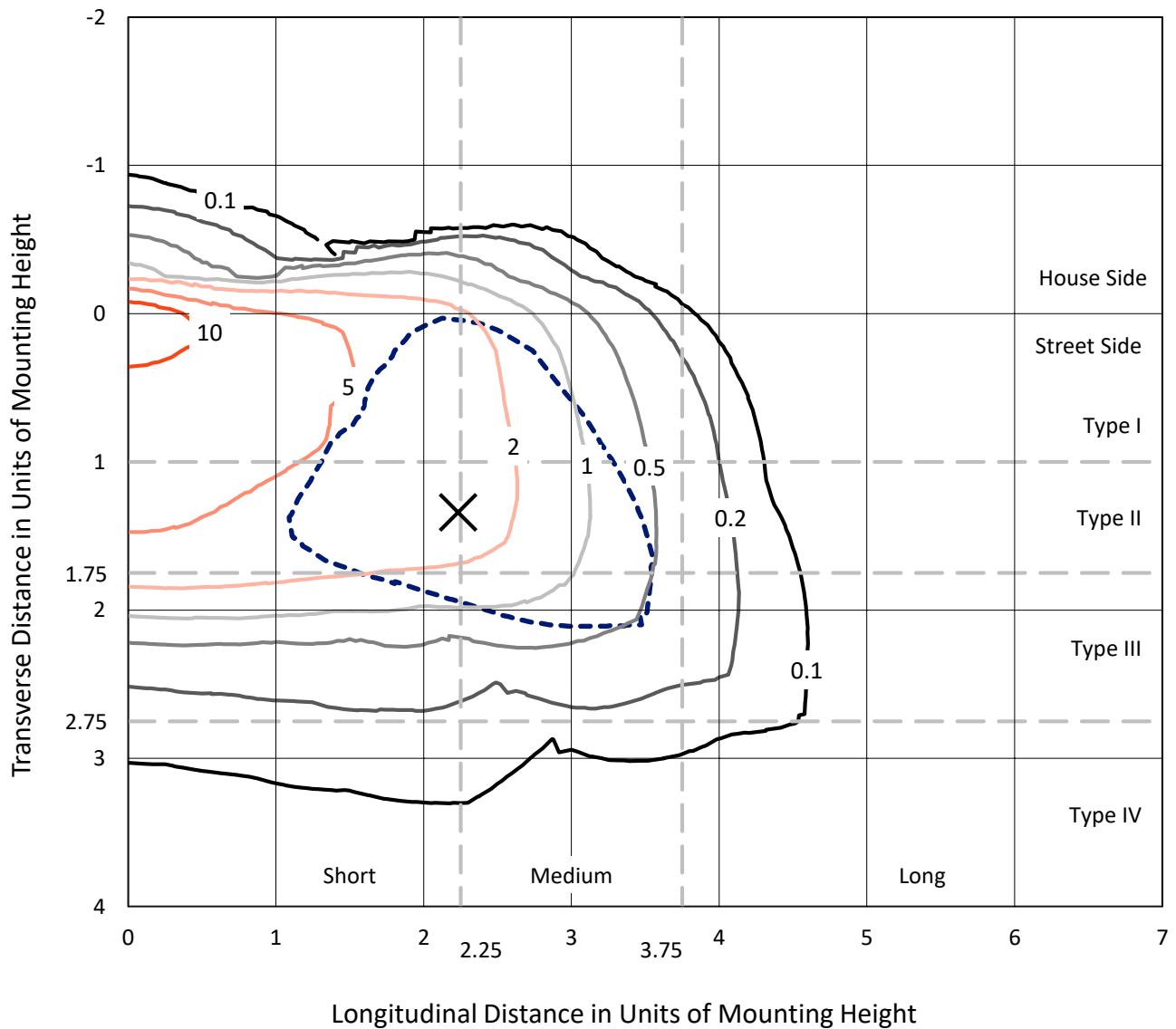


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

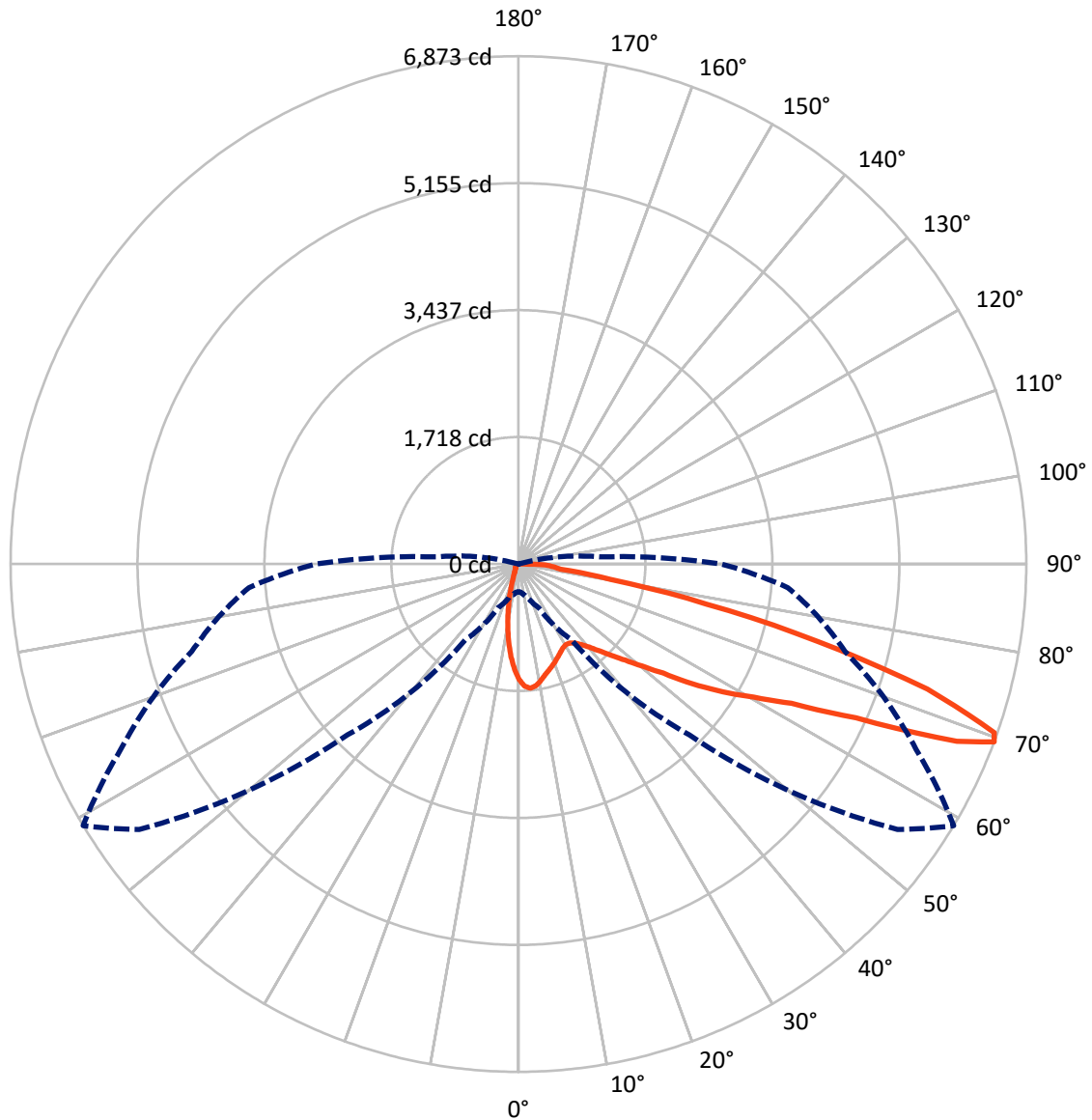


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - Non-Cutoff

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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	490.4	0.0	490.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5531.8	0.0	5531.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	6022.2	0.0	6022.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	2.1
10°-20°	262.9	4.4
20°-30°	353.8	5.9
30°-40°	513.6	8.5
40°-50°	855.3	14.2
50°-60°	1334.2	22.2
60°-70°	1651.0	27.4
70°-80°	836.7	13.9
80°-90°	87.6	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°	6022.2	100.0
0°-180°	6022.2	100.0



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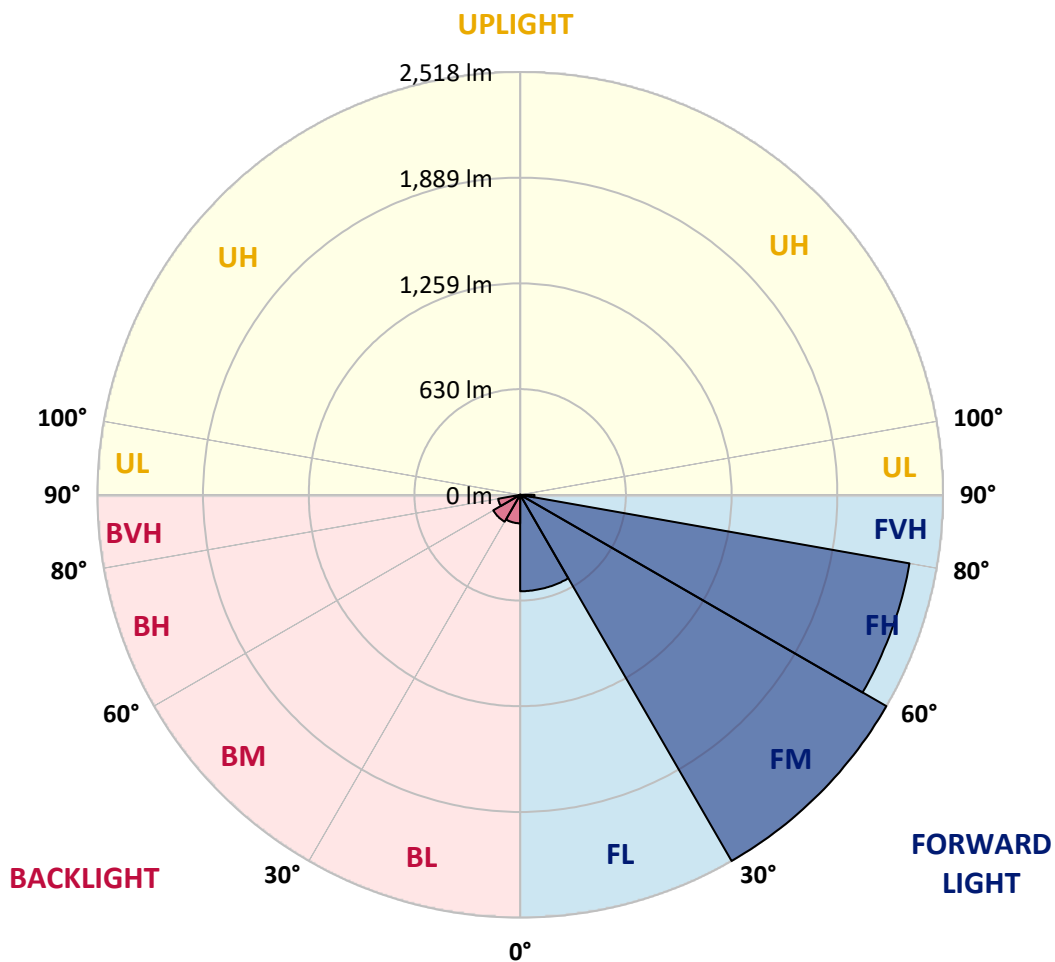
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.1	9.5			
FM	(30°-60°)	2518.3	41.8			
FH	(60°-80°)	2354.5	39.1			G2/5000
FVH	(80°-90°)	84.9	1.4			G1/100
BL	(0°-30°)	169.7	2.8	B1/500		
BM	(30°-60°)	184.8	3.1	B0/220		
BH	(60°-80°)	133.2	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°	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5
2.5°	1718.0	1717.4	1709.8	1706.4	1700.3	1687.4	1667.3	1656.7	1639.7	1610.0	1570.2
5°	1702.3	1710.6	1714.9	1715.3	1719.7	1714.9	1696.9	1688.1	1664.6	1616.8	1545.4
7.5°	1596.1	1599.1	1611.8	1622.6	1643.8	1663.9	1670.4	1666.5	1652.6	1601.6	1506.5
10°	1482.4	1485.4	1500.4	1514.7	1543.3	1574.3	1606.9	1613.9	1619.6	1579.7	1469.1
12.5°	1384.2	1387.3	1402.7	1421.4	1454.8	1492.9	1543.6	1554.9	1580.4	1559.0	1439.1
15°	1299.8	1301.1	1316.2	1339.3	1379.2	1428.2	1485.8	1503.8	1543.0	1544.4	1412.9
17.5°	1227.9	1231.3	1240.6	1262.7	1306.3	1366.9	1434.0	1459.9	1505.8	1532.1	1387.3
20°	1184.0	1187.4	1187.1	1199.4	1238.6	1303.2	1382.3	1413.2	1469.1	1519.5	1364.6
22.5°	1175.6	1175.6	1166.7	1164.9	1188.1	1242.3	1328.5	1366.2	1436.0	1514.1	1348.6
25°	1205.9	1204.4	1182.4	1164.3	1165.4	1197.6	1276.3	1321.3	1408.2	1517.8	1340.0
27.5°	1269.9	1268.2	1240.2	1205.9	1178.2	1177.9	1236.8	1285.2	1386.0	1535.5	1343.4
30°	1358.4	1357.7	1327.4	1284.1	1234.1	1188.1	1223.2	1267.1	1371.7	1567.5	1351.3
32.5°	1455.1	1454.0	1431.3	1385.7	1322.3	1234.1	1237.5	1274.3	1375.8	1610.0	1370.3
35°	1557.7	1555.9	1546.0	1506.2	1436.4	1318.9	1284.5	1313.1	1401.7	1673.8	1407.8
37.5°	1668.6	1670.4	1677.5	1639.3	1566.1	1437.8	1363.2	1382.6	1453.7	1760.3	1468.7
40°	1832.4	1832.1	1834.5	1784.4	1714.0	1583.1	1473.1	1479.3	1541.0	1875.0	1561.4
42.5°	2129.7	2109.0	2046.0	1943.8	1872.9	1749.3	1611.8	1605.3	1647.6	2017.0	1691.1
45°	2529.2	2484.9	2321.4	2125.7	2035.0	1936.7	1782.3	1761.6	1788.5	2187.6	1851.2
47.5°	2872.7	2826.7	2595.6	2314.9	2207.0	2114.4	1982.2	1944.8	1953.7	2378.7	2054.1
50°	2989.5	2967.1	2765.2	2479.8	2373.5	2338.1	2214.2	2168.5	2156.0	2599.6	2289.4
52.5°	2949.0	2947.4	2812.8	2586.7	2526.1	2569.7	2506.0	2453.2	2406.9	2832.6	2528.8
55°	2884.0	2892.5	2832.2	2680.3	2678.3	2781.2	2905.1	2861.2	2727.0	3085.6	2735.2
57.5°	2704.6	2741.0	2821.4	2857.5	2941.2	3046.5	3237.5	3263.4	3104.7	3279.4	2906.4
60°	2194.4	2274.4	2537.3	2882.9	3280.1	3542.3	3638.7	3660.7	3414.5	3440.4	3137.7
62.5°	1557.7	1639.3	1972.8	2557.4	3285.1	4193.7	4236.3	4149.4	3755.8	3679.2	3536.5
65°	826.8	889.9	1162.3	1846.0	2848.3	4344.9	5281.4	5022.6	4357.8	4148.7	4051.7
67.5°	422.9	442.0	550.4	903.5	1958.1	3859.3	6218.2	6400.4	5395.4	4614.6	4026.9
69°	374.3	385.5	457.4	653.2	1253.8	3268.8	6263.9	6873.4	5938.7	4575.8	3659.4
70°	362.3	372.2	437.6	591.2	980.1	2741.3	6089.1	6831.8	6077.6	4428.0	3384.9
72.5°	307.6	316.0	389.6	522.4	796.6	1360.7	4946.3	5789.2	5453.7	3688.7	2450.1
75°	205.7	233.6	374.0	489.7	741.0	773.1	3261.0	4183.5	3886.2	2488.0	1276.3
77.5°	49.4	53.1	105.6	389.6	677.7	680.4	1677.2	2600.6	2121.2	886.8	301.7
80°	26.6	25.6	29.6	77.3	631.0	638.5	755.0	1262.4	757.4	147.1	99.4
82.5°	18.8	17.7	19.1	32.4	198.6	581.6	546.2	571.4	313.9	56.5	44.6
85°	6.8	6.5	10.5	29.3	62.3	334.4	561.2	471.3	254.4	25.9	32.7
87.5°	2.4	2.1	4.1	16.0	19.1	142.4	346.3	356.2	100.1	15.7	15.4
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°	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5	1567.5
2.5°	1553.5	1532.4	1493.6	1453.7	1416.9	1372.7	1350.5	1328.8	1319.6	1316.2	1300.2
5°	1508.6	1472.8	1390.4	1307.6	1231.3	1150.3	1096.9	1054.0	1028.8	1016.5	997.1
7.5°	1451.1	1392.5	1267.4	1139.8	1020.9	903.8	817.0	750.2	704.2	682.1	662.0
10°	1395.2	1317.2	1139.5	965.4	804.0	648.7	528.8	442.0	386.5	361.0	344.7
12.5°	1345.2	1244.0	1015.9	795.5	592.8	411.1	289.1	220.0	185.6	173.6	167.8
15°	1300.5	1176.6	899.0	634.1	401.5	235.0	158.1	134.5	129.1	129.1	128.4
17.5°	1258.3	1110.5	786.3	482.5	252.0	143.7	120.2	117.1	117.1	118.5	118.5
20°	1217.7	1047.5	677.3	346.3	158.7	114.0	108.7	107.9	108.7	110.3	110.3
22.5°	1183.0	990.3	575.5	237.6	117.8	102.8	100.1	99.1	99.4	100.4	101.1
25°	1157.1	941.9	479.5	161.0	101.5	93.6	90.6	88.9	87.5	87.5	88.2
27.5°	1140.8	901.1	386.5	117.1	91.2	85.2	80.3	77.6	74.5	72.9	73.5
30°	1128.9	862.2	299.3	95.7	81.8	75.6	69.5	65.1	60.6	58.6	59.3
32.5°	1124.4	830.9	223.7	84.4	73.2	66.4	58.9	53.1	48.4	46.6	47.0
35°	1136.4	806.1	163.8	76.3	66.4	57.8	49.4	42.9	39.2	38.1	38.5
37.5°	1167.7	792.8	122.6	69.5	60.3	50.7	41.2	35.1	32.7	32.7	33.0
40°	1226.9	792.4	98.5	64.7	54.9	43.9	34.0	29.6	28.2	29.0	29.3
42.5°	1313.4	810.5	85.8	60.3	50.1	37.4	28.2	25.2	24.8	25.6	25.9
45°	1431.6	843.5	79.0	56.5	45.0	31.3	23.8	21.8	21.8	22.8	23.2
47.5°	1576.3	891.8	73.2	52.8	39.8	26.2	20.4	19.1	19.4	20.4	20.7
50°	1750.7	952.9	67.4	48.7	36.1	21.8	17.7	16.7	17.0	18.4	18.8
52.5°	1949.2	1034.9	62.7	45.0	31.3	18.0	14.9	14.3	14.9	16.4	16.7
55°	2119.5	1108.4	56.9	41.9	25.2	14.9	12.3	12.3	13.0	14.6	14.9
57.5°	2283.3	1185.4	51.8	36.1	19.8	12.0	10.2	10.5	11.5	13.3	13.6
60°	2523.7	1315.8	45.7	30.3	14.9	9.5	8.6	8.9	10.2	12.0	12.3
62.5°	2932.0	1514.4	39.5	25.2	11.5	7.5	6.8	7.5	9.2	11.2	11.5
65°	3300.5	1595.1	32.4	21.1	8.9	5.8	5.8	6.8	8.9	10.9	11.2
67.5°	3095.1	1342.7	25.2	16.7	6.8	4.4	4.7	6.5	8.6	10.9	11.2
69°	2737.3	1097.9	21.4	13.3	5.8	4.1	4.4	6.5	8.6	10.5	10.9
70°	2458.4	927.0	19.1	11.2	5.2	4.1	4.4	6.1	8.6	10.5	10.9
72.5°	1646.5	500.6	15.4	8.1	4.7	3.7	3.7	6.1	8.1	10.2	10.5
75°	707.6	138.3	12.3	5.8	4.1	3.4	3.4	5.8	7.8	9.9	10.5
77.5°	129.4	35.1	9.9	5.2	4.1	3.4	3.1	5.5	7.5	9.5	9.9
80°	51.4	17.3	7.8	4.4	3.7	3.1	2.7	5.2	7.1	9.2	9.5
82.5°	31.0	9.9	6.5	4.1	3.7	2.7	2.4	4.4	6.8	8.9	9.2
85°	25.2	6.8	5.2	4.1	3.4	2.7	2.1	4.1	6.1	8.6	8.9
87.5°	12.3	4.7	4.7	3.7	3.4	2.7	2.1	3.7	5.8	8.1	8.6
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)