

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: P526777

Luminaire Tested: **GALN-SA1D-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4169 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

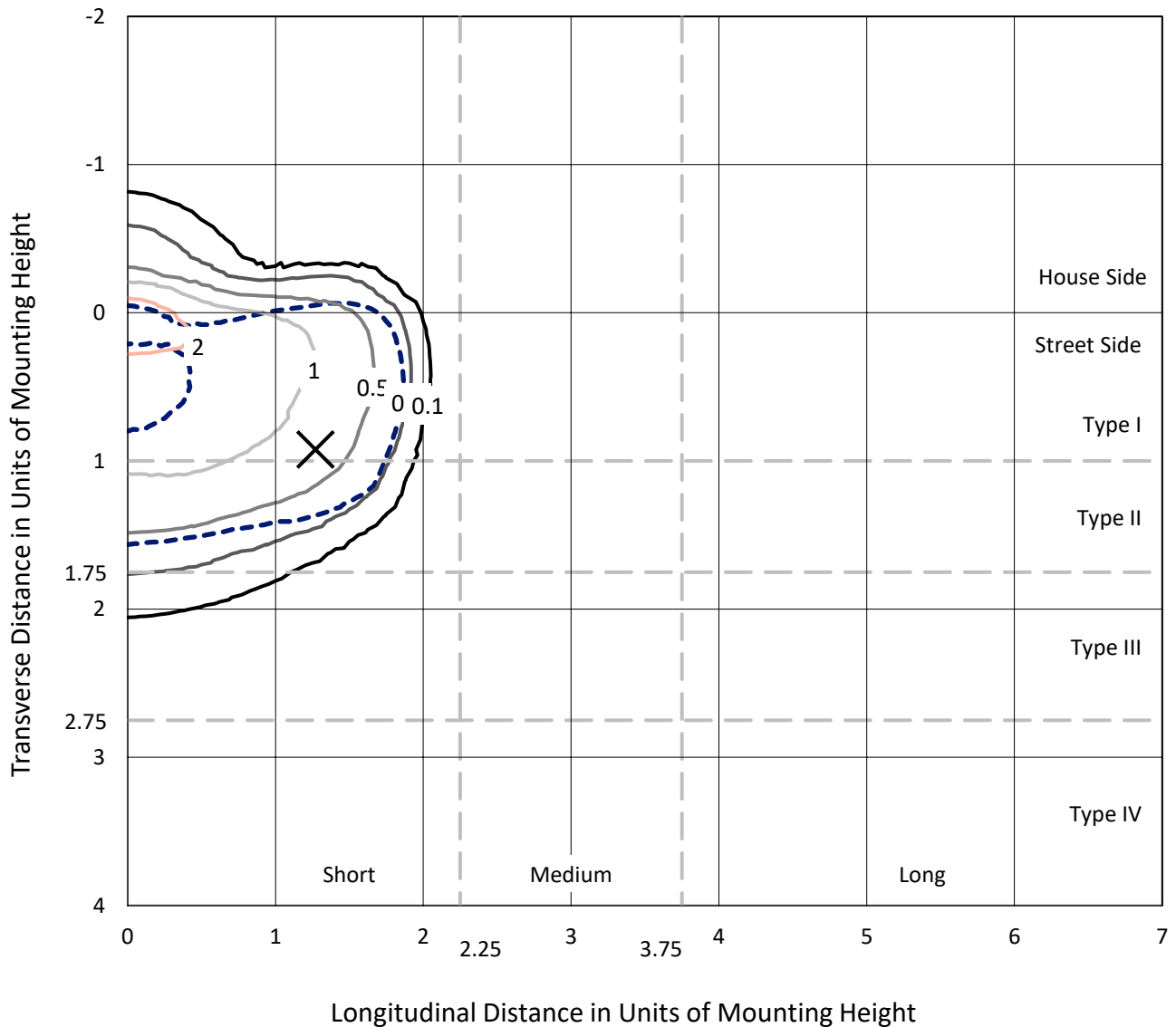
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

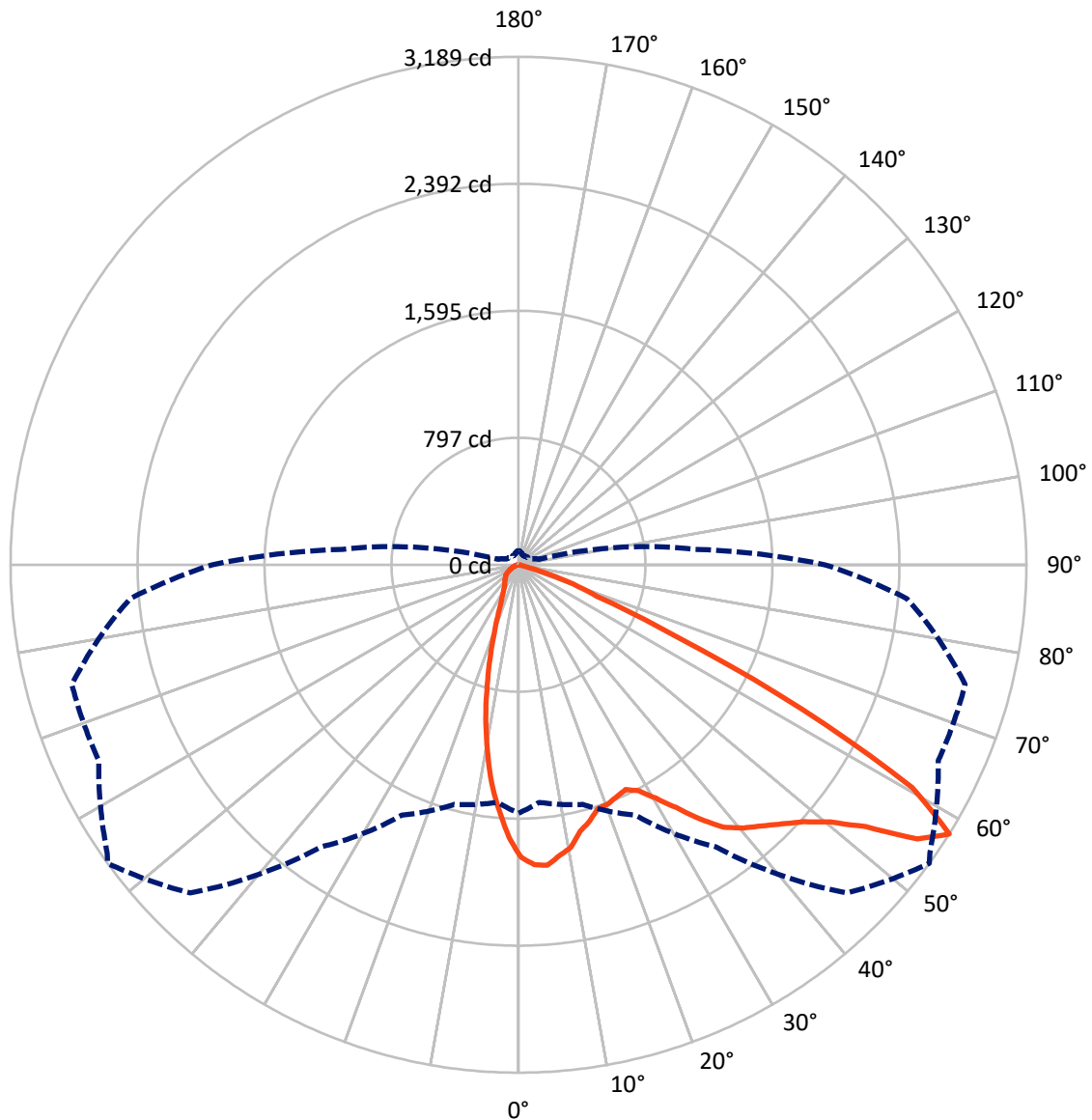
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	589.2	0.0	589.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	3579.9	0.0	3579.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	4169.0	0.0	4169.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	3.7
10°-20°	328.1	7.9
20°-30°	434.8	10.4
30°-40°	631.9	15.2
40°-50°	937.0	22.5
50°-60°	1171.7	28.1
60°-70°	462.2	11.1
70°-80°	46.0	1.1
80°-90°	3.6	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°	4169.0	100.0
0°-180°	4169.0	100.0

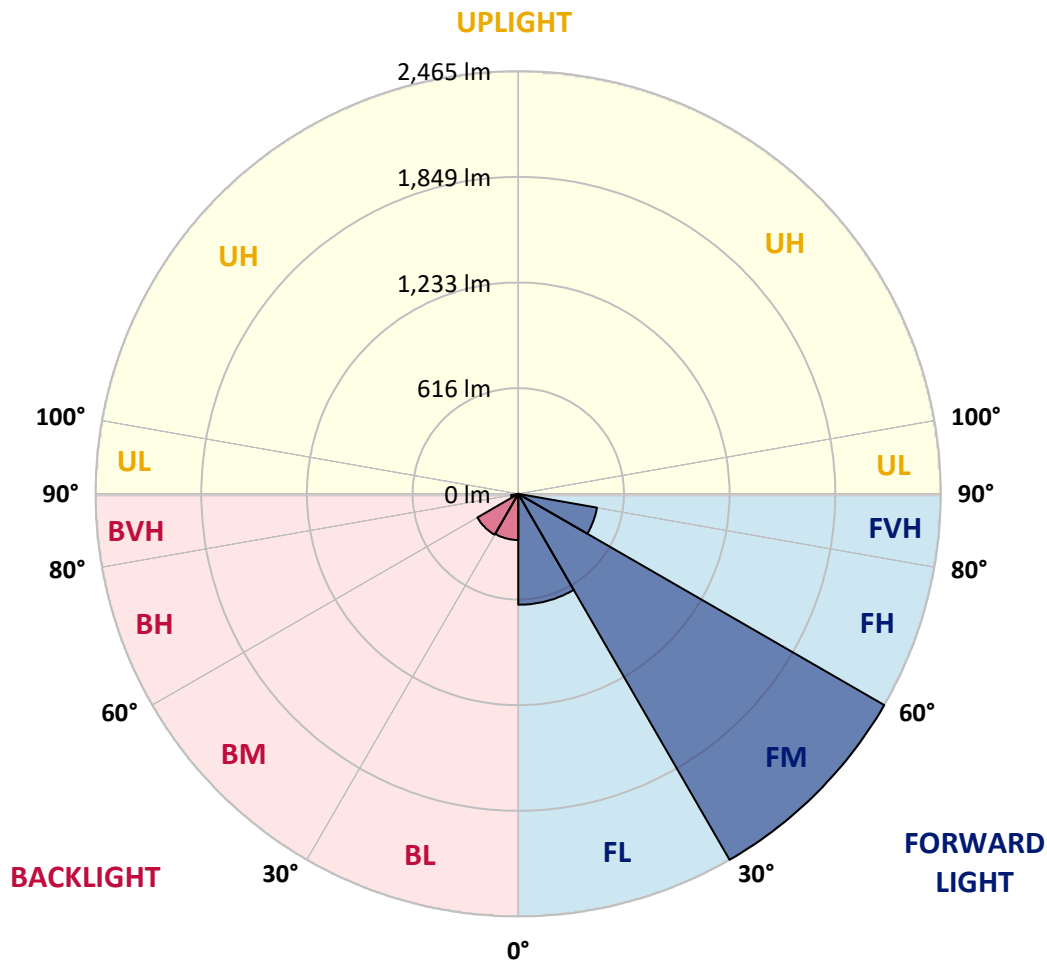


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.1	15.5			
FM (30°-60°)	2465.1	59.1			
FH (60°-80°)	466.0	11.2			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	269.4	6.5	B1/500		
BM (30°-60°)	275.5	6.6	B1/1000		
BH (60°-80°)	42.3	1.0	B0/110		G0/110
BVH (80°-90°)	2.0	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5
2.5°	1943.5	1923.3	1924.9	1917.9	1908.6	1915.6	1885.3	1892.3	1891.5	1850.5	1823.3
5°	1894.6	1916.3	1893.9	1912.5	1894.6	1914.0	1895.4	1881.5	1859.0	1828.7	1778.4
7.5°	1811.7	1790.8	1797.0	1820.2	1824.1	1867.5	1844.3	1862.1	1852.8	1793.1	1724.1
10°	1645.0	1640.4	1671.4	1702.4	1740.4	1786.9	1804.7	1794.6	1787.7	1765.2	1672.9
12.5°	1517.1	1530.3	1529.5	1580.7	1645.0	1671.4	1717.9	1716.3	1755.1	1713.2	1624.9
15°	1395.4	1402.4	1434.9	1466.7	1538.0	1613.2	1670.6	1678.4	1724.9	1695.4	1587.7
17.5°	1321.0	1310.9	1336.5	1374.5	1447.3	1545.8	1609.4	1628.0	1691.5	1685.3	1545.0
20°	1247.3	1247.3	1268.3	1313.2	1379.9	1490.8	1603.9	1598.5	1691.5	1673.7	1499.3
22.5°	1222.5	1234.9	1240.4	1274.5	1353.5	1448.9	1580.7	1590.8	1704.7	1668.3	1479.1
25°	1256.6	1240.4	1241.9	1269.0	1343.5	1428.7	1563.6	1586.1	1728.7	1695.4	1462.8
27.5°	1262.1	1278.3	1283.0	1301.6	1351.2	1434.9	1606.3	1652.0	1788.4	1759.0	1467.5
30°	1309.3	1325.6	1324.9	1356.6	1390.7	1485.3	1701.6	1710.9	1911.7	1838.8	1496.2
32.5°	1366.7	1383.8	1389.2	1426.4	1453.5	1577.6	1817.9	1841.9	2030.3	1964.4	1571.4
35°	1438.0	1431.8	1456.6	1493.9	1552.0	1712.5	1959.8	2000.1	2158.2	2127.2	1648.9
37.5°	1527.2	1519.4	1543.5	1603.9	1683.0	1872.2	2090.8	2117.1	2251.2	2278.4	1792.3
40°	1590.0	1593.1	1666.0	1747.4	1831.1	2024.1	2173.7	2199.3	2316.4	2419.5	1900.8
42.5°	1694.6	1714.0	1801.6	1900.8	1988.4	2138.1	2241.2	2266.0	2346.6	2532.6	2047.4
45°	1846.6	1838.1	1935.0	2045.8	2142.7	2256.7	2321.0	2312.5	2364.4	2645.1	2139.6
47.5°	2041.9	2043.5	2107.8	2202.4	2303.2	2359.8	2410.2	2379.9	2401.6	2763.7	2262.9
50°	2175.3	2186.9	2238.8	2335.7	2386.1	2473.0	2537.3	2518.7	2511.7	2835.0	2340.4
52.5°	2209.4	2244.3	2272.2	2393.1	2510.9	2648.2	2730.3	2769.9	2645.8	2859.0	2438.8
55°	1952.0	1983.0	2081.5	2247.4	2558.2	2925.7	3038.9	3039.6	2821.0	2966.0	2507.8
57.5°	1560.5	1497.7	1558.2	1734.2	2162.9	2914.1	3189.3	3152.8	2908.6	2903.2	2448.2
60°	1079.1	1063.6	1067.5	1137.3	1497.0	2317.9	2842.0	2889.3	2678.4	2516.4	1938.1
62.5°	855.1	841.9	824.8	817.1	929.5	1444.2	2004.7	2071.4	1872.9	1631.8	1148.9
65°	669.8	662.0	664.4	695.4	694.6	819.4	1096.2	1069.0	855.8	632.6	361.3
67.5°	452.0	463.6	472.9	566.7	614.8	570.6	529.5	514.0	278.3	117.1	79.8
70°	254.3	255.8	265.9	354.3	466.7	442.7	365.1	365.1	138.8	42.6	45.7
72.5°	138.8	134.1	124.8	152.7	207.8	210.9	162.8	141.9	41.1	27.9	25.6
75°	67.4	66.7	57.4	47.3	45.0	37.2	28.7	26.4	18.6	17.8	15.5
77.5°	14.0	13.2	7.0	7.0	7.8	8.5	10.9	10.9	13.2	13.2	10.9
80°	0.0	0.0	0.8	3.1	5.4	7.8	9.3	9.3	10.9	10.9	8.5
82.5°	0.0	0.0	0.8	2.3	4.7	7.0	8.5	9.3	10.9	11.6	9.3
85°	0.0	0.0	0.0	1.6	3.9	5.4	4.7	4.7	3.9	3.1	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5
2.5°	1809.4	1807.8	1772.2	1752.0	1715.6	1683.8	1658.2	1639.6	1639.6	1628.0	1617.1
5°	1758.2	1745.0	1669.1	1620.2	1551.2	1500.1	1465.2	1438.0	1395.4	1407.0	1361.3
7.5°	1694.6	1661.3	1560.5	1486.1	1390.7	1317.9	1243.5	1177.6	1114.0	1085.3	1100.8
10°	1626.4	1568.3	1432.6	1314.8	1196.2	1062.8	976.0	870.6	805.5	801.6	784.5
12.5°	1554.3	1488.4	1323.3	1160.5	1004.7	844.2	711.7	613.2	569.0	520.2	529.5
15°	1500.1	1402.4	1201.6	1005.5	798.5	636.5	503.1	427.1	385.3	373.7	369.8
17.5°	1441.1	1336.5	1077.6	840.3	626.4	458.2	362.0	325.6	309.3	309.3	307.0
20°	1379.9	1262.1	954.3	686.8	469.8	341.9	289.9	278.3	277.5	276.8	276.8
22.5°	1339.6	1176.8	842.7	545.8	354.3	273.7	251.9	247.3	250.4	259.7	259.7
25°	1296.9	1094.6	719.4	420.9	274.4	234.9	222.5	225.6	233.3	241.9	238.8
27.5°	1253.5	1041.1	603.1	330.2	224.8	205.4	200.8	207.8	216.3	224.0	221.7
30°	1243.5	983.8	493.0	250.4	193.0	179.1	182.2	188.4	196.9	200.0	203.1
32.5°	1259.0	938.8	403.9	205.4	168.2	164.3	164.3	167.4	172.9	179.9	177.5
35°	1303.1	913.2	319.4	178.3	154.3	150.4	149.6	152.7	155.8	158.1	155.8
37.5°	1370.6	893.1	261.2	158.1	145.0	138.8	137.2	136.4	139.5	140.3	141.9
40°	1456.6	903.9	221.7	145.7	135.7	128.7	124.0	124.0	124.0	126.4	127.1
42.5°	1549.7	918.6	191.5	138.8	127.1	118.6	114.0	112.4	114.0	117.1	116.3
45°	1647.3	947.3	172.1	127.9	119.4	108.5	102.3	100.8	104.7	110.9	110.1
47.5°	1738.8	988.4	157.4	120.9	111.6	101.6	93.8	92.3	99.2	107.8	108.5
50°	1830.3	1059.7	151.9	115.5	106.2	94.6	87.6	86.0	93.8	104.7	107.0
52.5°	1935.7	1136.5	148.1	108.5	100.0	89.2	81.4	79.8	88.4	102.3	103.1
55°	2004.7	1201.6	145.0	96.1	88.4	80.6	74.4	73.6	82.9	95.4	98.5
57.5°	1924.1	1110.9	134.1	83.7	75.2	71.3	65.9	65.9	73.6	85.3	87.6
60°	1459.0	731.0	95.4	67.4	63.6	61.2	58.9	58.9	65.1	73.6	74.4
62.5°	854.3	393.8	61.2	54.3	54.3	51.9	48.1	48.1	54.3	58.9	59.7
65°	253.5	126.4	49.6	46.5	45.7	41.9	38.0	37.2	41.9	44.2	43.4
67.5°	72.9	58.1	41.1	38.8	38.0	31.8	29.5	28.7	29.5	27.9	27.1
70°	43.4	39.5	31.8	32.6	28.7	23.3	20.9	20.2	18.6	16.3	14.7
72.5°	24.0	24.0	23.3	24.8	20.2	15.5	13.2	10.9	8.5	7.0	6.2
75°	14.7	15.5	16.3	17.1	13.2	10.1	8.5	5.4	3.1	1.6	1.6
77.5°	10.1	10.9	11.6	12.4	10.9	9.3	7.0	3.9	0.8	0.0	0.0
80°	7.8	8.5	10.1	10.9	11.6	12.4	9.3	3.9	0.8	0.0	0.0
82.5°	8.5	9.3	11.6	10.9	10.9	10.9	8.5	3.9	0.8	0.0	0.0
85°	1.6	2.3	3.9	3.9	5.4	7.0	5.4	1.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)