

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: STREETWORKS

Report Number: P323535

Luminaire Tested: **GAN-SA1D-740-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 6941 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

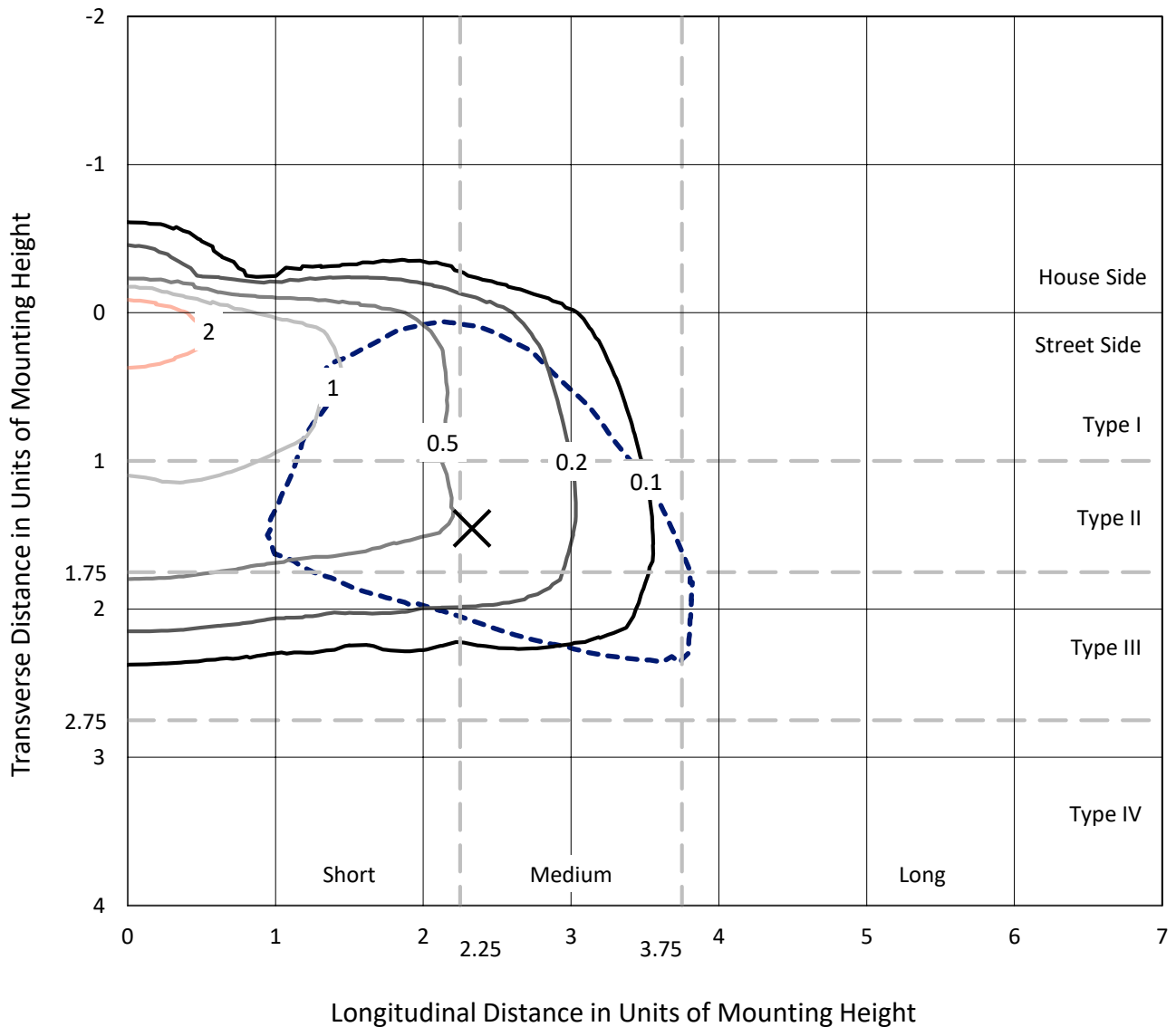
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

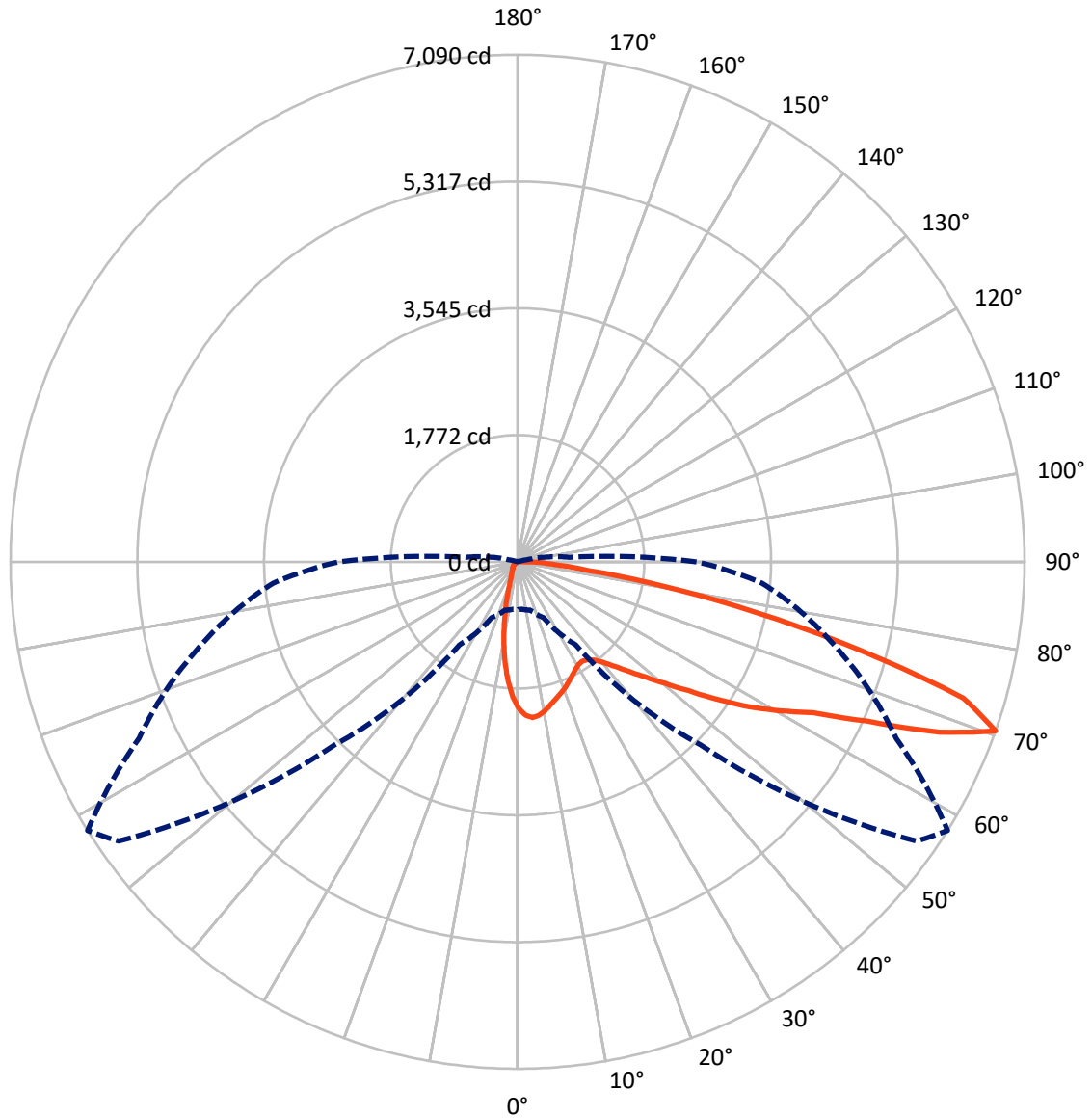
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.0	0.0	594.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	6347.0	0.0	6347.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	6941.0	0.0	6941.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	2.4
10°-20°	351.9	5.1
20°-30°	462.6	6.7
30°-40°	612.7	8.8
40°-50°	915.8	13.2
50°-60°	1467.0	21.1
60°-70°	1849.2	26.6
70°-80°	997.4	14.4
80°-90°	116.8	1.7
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°	6941.0	100.0
0°-180°	6941.0	100.0

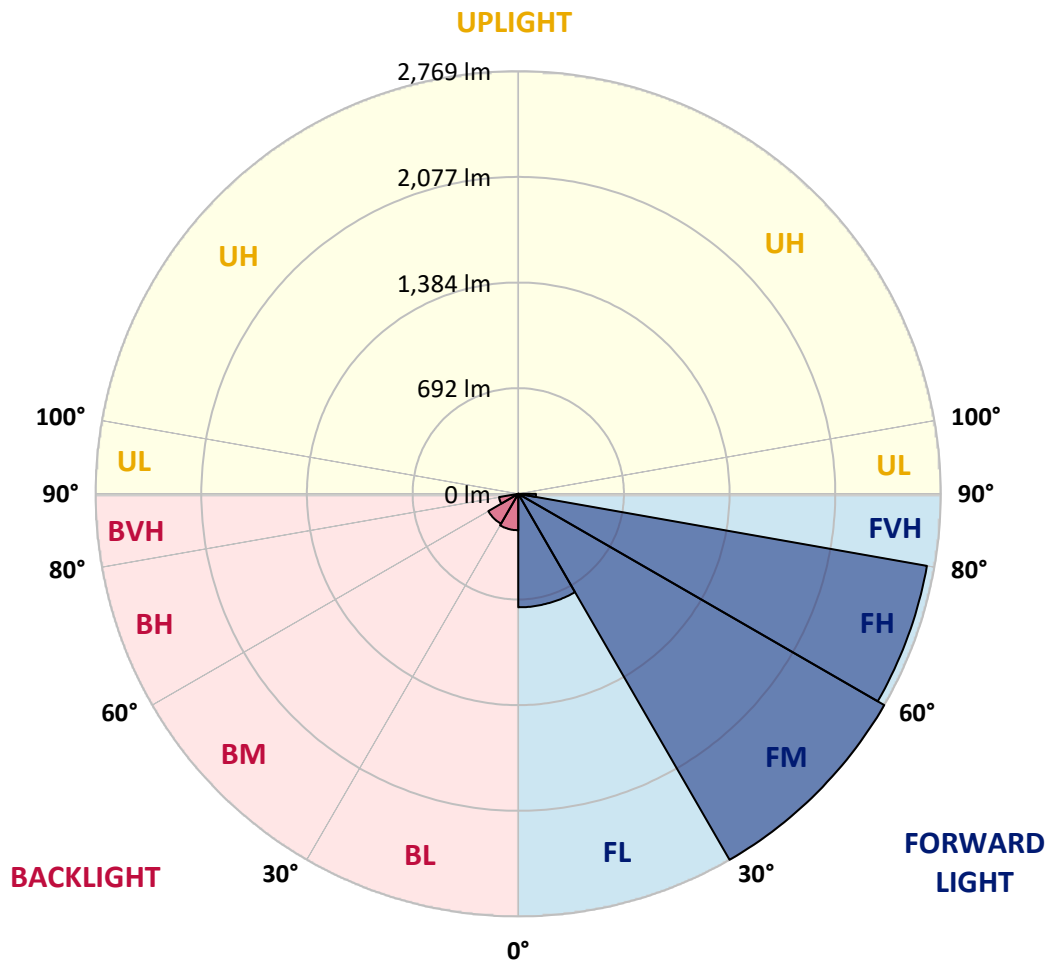


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.5	10.7			
FM (30°-60°)	2768.9	39.9			
FH (60°-80°)	2718.9	39.2			G2/5000
FVH (80°-90°)	115.7	1.7			G2/225
BL (0°-30°)	238.6	3.4	B1/500		
BM (30°-60°)	226.6	3.3	B1/1000		
BH (60°-80°)	127.7	1.8	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3
2.5°	2220.3	2214.9	2212.8	2209.4	2196.1	2183.1	2157.4	2150.2	2134.0	2095.7	2055.0
5°	2222.1	2221.8	2227.8	2226.4	2221.8	2215.7	2197.2	2187.7	2160.3	2105.5	2031.0
7.5°	2115.0	2120.5	2134.0	2145.0	2157.7	2174.2	2176.5	2167.2	2144.7	2085.5	1986.8
10°	1971.3	1979.9	1999.0	2020.6	2053.8	2086.7	2116.1	2115.0	2107.2	2048.9	1933.7
12.5°	1827.2	1837.3	1859.3	1891.3	1938.4	1992.0	2044.6	2051.8	2064.8	2016.0	1884.7
15°	1701.1	1709.8	1731.4	1770.7	1829.0	1901.1	1978.2	1991.5	2024.9	1990.3	1843.7
17.5°	1594.0	1599.5	1615.4	1659.0	1726.5	1814.0	1914.1	1940.1	1990.0	1970.1	1808.2
20°	1519.3	1520.1	1530.5	1561.1	1628.7	1726.5	1847.7	1885.0	1953.1	1952.8	1771.5
22.5°	1482.3	1479.5	1481.5	1499.1	1548.7	1643.1	1781.3	1825.5	1919.9	1938.1	1734.3
25°	1475.4	1473.1	1467.3	1469.6	1499.7	1570.1	1714.4	1765.5	1890.7	1929.1	1702.0
27.5°	1497.1	1499.4	1489.6	1479.2	1481.5	1522.7	1654.9	1714.1	1867.1	1929.1	1679.2
30°	1540.6	1541.8	1534.6	1521.0	1502.8	1509.5	1613.7	1672.8	1855.2	1942.4	1664.7
32.5°	1588.8	1595.2	1594.3	1583.4	1557.4	1530.5	1603.8	1657.8	1854.4	1971.8	1663.3
35°	1648.6	1655.8	1667.9	1665.6	1638.5	1594.3	1637.3	1679.8	1871.4	2020.3	1678.9
37.5°	1712.1	1723.0	1749.0	1761.4	1743.8	1693.9	1712.4	1742.7	1917.0	2098.8	1718.4
40°	1773.6	1786.0	1833.3	1882.1	1868.8	1817.4	1826.1	1850.3	1998.1	2211.7	1793.5
42.5°	1833.9	1852.3	1921.9	2002.1	2018.0	1977.0	1981.6	2001.0	2118.5	2367.0	1916.1
45°	1906.0	1926.8	2029.8	2128.8	2171.3	2153.4	2173.0	2185.7	2275.7	2572.2	2081.5
47.5°	2012.0	2035.9	2162.3	2275.2	2349.6	2361.2	2400.7	2409.1	2474.6	2811.1	2297.1
50°	2218.6	2225.2	2339.5	2442.0	2549.4	2618.6	2663.7	2670.0	2715.3	3072.3	2566.4
52.5°	2478.6	2483.0	2547.6	2616.3	2738.4	2879.8	2985.2	2994.1	3003.6	3326.9	2832.2
55°	2737.0	2736.4	2779.1	2819.5	2959.2	3164.7	3393.3	3398.8	3330.4	3568.5	3035.4
57.5°	2898.3	2913.9	2978.8	3030.8	3225.9	3489.4	3806.6	3826.8	3673.5	3747.4	3236.3
60°	2846.9	2854.4	2998.4	3190.7	3558.1	3950.9	4224.8	4230.0	3931.5	3926.1	3490.3
62.5°	2425.5	2429.6	2655.9	3052.1	3726.3	4549.5	4729.3	4644.7	4228.2	4174.0	3794.2
65°	1662.4	1688.7	1877.7	2367.5	3417.2	4925.0	5510.3	5370.3	4680.5	4531.3	4068.9
67.5°	979.0	973.5	1067.0	1427.8	2509.8	4675.6	6498.2	6359.1	5297.3	4770.6	3988.4
70°	668.7	665.0	700.8	864.4	1416.8	3627.1	6809.1	7089.9	5841.9	4609.5	3432.5
72.5°	477.4	479.4	532.2	671.6	889.5	2113.3	5855.5	6520.2	5671.3	4018.4	2609.1
75°	324.1	329.6	405.2	551.0	779.8	1075.1	4155.2	4956.4	4618.2	2920.5	1499.7
77.5°	174.3	180.4	269.6	443.9	705.1	746.9	2672.9	3411.2	2900.9	1312.9	434.7
80°	72.7	76.2	126.1	322.7	609.3	656.0	1572.7	2068.5	1236.1	258.9	97.0
82.5°	31.5	33.2	52.5	192.5	455.4	553.9	832.7	995.2	374.6	56.9	48.8
85°	6.1	6.3	21.6	101.9	290.6	312.6	539.7	529.0	168.3	24.5	35.5
87.5°	0.0	0.0	5.2	32.0	85.4	170.3	329.3	325.3	57.1	11.8	13.3
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°	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3
2.5°	2034.2	2014.3	1972.4	1920.7	1881.2	1837.6	1803.0	1759.1	1740.1	1740.9	1730.6
5°	1988.6	1947.6	1854.9	1738.1	1648.0	1555.1	1475.1	1395.5	1348.4	1333.1	1318.7
7.5°	1923.3	1858.4	1710.6	1530.5	1378.1	1229.2	1099.6	985.6	913.5	878.3	865.3
10°	1849.7	1758.5	1544.7	1307.4	1089.8	888.4	720.4	574.3	516.0	476.5	466.4
12.5°	1785.1	1661.6	1382.5	1078.6	820.3	577.2	417.1	326.1	286.6	271.0	268.4
15°	1724.2	1570.9	1226.3	871.3	568.0	355.3	265.2	234.4	225.1	222.5	222.5
17.5°	1666.8	1484.6	1073.7	667.3	375.8	249.1	219.6	212.7	209.8	209.5	209.8
20°	1606.7	1398.4	923.6	488.9	262.4	211.0	202.9	199.1	198.3	198.3	198.3
22.5°	1549.3	1312.1	777.5	349.2	210.4	192.5	188.5	185.9	185.0	184.7	184.1
25°	1494.2	1230.1	635.0	246.8	184.7	176.3	172.9	169.4	166.8	165.4	164.5
27.5°	1448.9	1157.1	502.2	198.0	166.8	159.6	155.3	150.1	143.7	140.8	139.7
30°	1412.8	1090.4	387.0	167.1	150.1	142.9	136.2	127.3	118.0	113.1	112.8
32.5°	1384.5	1024.9	293.8	147.8	135.1	126.1	116.6	105.3	94.7	89.2	88.9
35°	1370.6	967.2	224.5	133.6	121.8	110.5	98.7	86.3	75.9	70.7	70.1
37.5°	1379.9	918.4	175.2	121.8	110.5	97.6	83.7	70.7	61.5	56.9	56.6
40°	1413.6	887.2	142.3	111.7	101.0	85.1	70.1	58.0	50.2	46.5	46.2
42.5°	1485.5	875.7	121.5	103.3	91.8	73.6	58.3	47.9	40.7	38.1	37.5
45°	1605.6	892.7	107.4	95.2	82.3	62.6	48.2	39.3	32.9	30.9	30.6
47.5°	1765.5	937.4	97.3	87.5	73.6	52.8	40.1	31.7	26.8	24.8	24.5
50°	1971.5	1008.4	88.9	79.7	65.5	44.7	33.2	25.1	20.8	19.3	19.3
52.5°	2195.8	1093.0	81.4	72.4	57.4	37.2	26.8	19.3	16.5	14.7	14.7
55°	2381.1	1166.9	73.3	67.0	47.6	30.9	20.5	14.7	12.1	11.3	11.3
57.5°	2566.1	1245.7	64.1	57.4	38.1	25.1	15.6	11.0	8.9	8.4	8.4
60°	2805.9	1342.1	55.1	46.8	30.0	19.0	11.5	7.8	6.6	6.3	6.3
62.5°	3069.7	1398.6	47.0	37.5	23.4	14.1	8.4	5.2	4.9	4.9	4.6
65°	3231.1	1318.7	39.5	30.0	18.2	10.7	5.5	3.8	4.3	4.0	3.5
67.5°	3025.3	1032.4	32.3	23.4	14.1	8.1	3.5	2.6	4.6	3.8	2.9
70°	2504.9	722.7	25.1	16.5	11.3	6.9	2.3	1.7	4.9	3.8	2.3
72.5°	1874.6	483.7	19.9	11.0	8.4	6.1	2.0	0.9	4.3	3.2	2.0
75°	1024.3	194.8	15.9	6.9	5.2	4.3	1.4	0.6	2.9	2.3	1.4
77.5°	269.6	51.4	11.5	4.6	2.9	1.7	0.9	0.3	1.4	1.2	0.6
80°	68.7	19.9	7.5	3.2	2.0	0.9	0.0	0.0	0.3	0.0	0.0
82.5°	36.7	8.4	4.6	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.7	5.5	2.6	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	1.7	0.9	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)