

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: P323495

Luminaire Tested: **GAN-SA1D-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323495
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-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 6321 lumens
Efficiency: N/A
Efficacy: 94.3 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

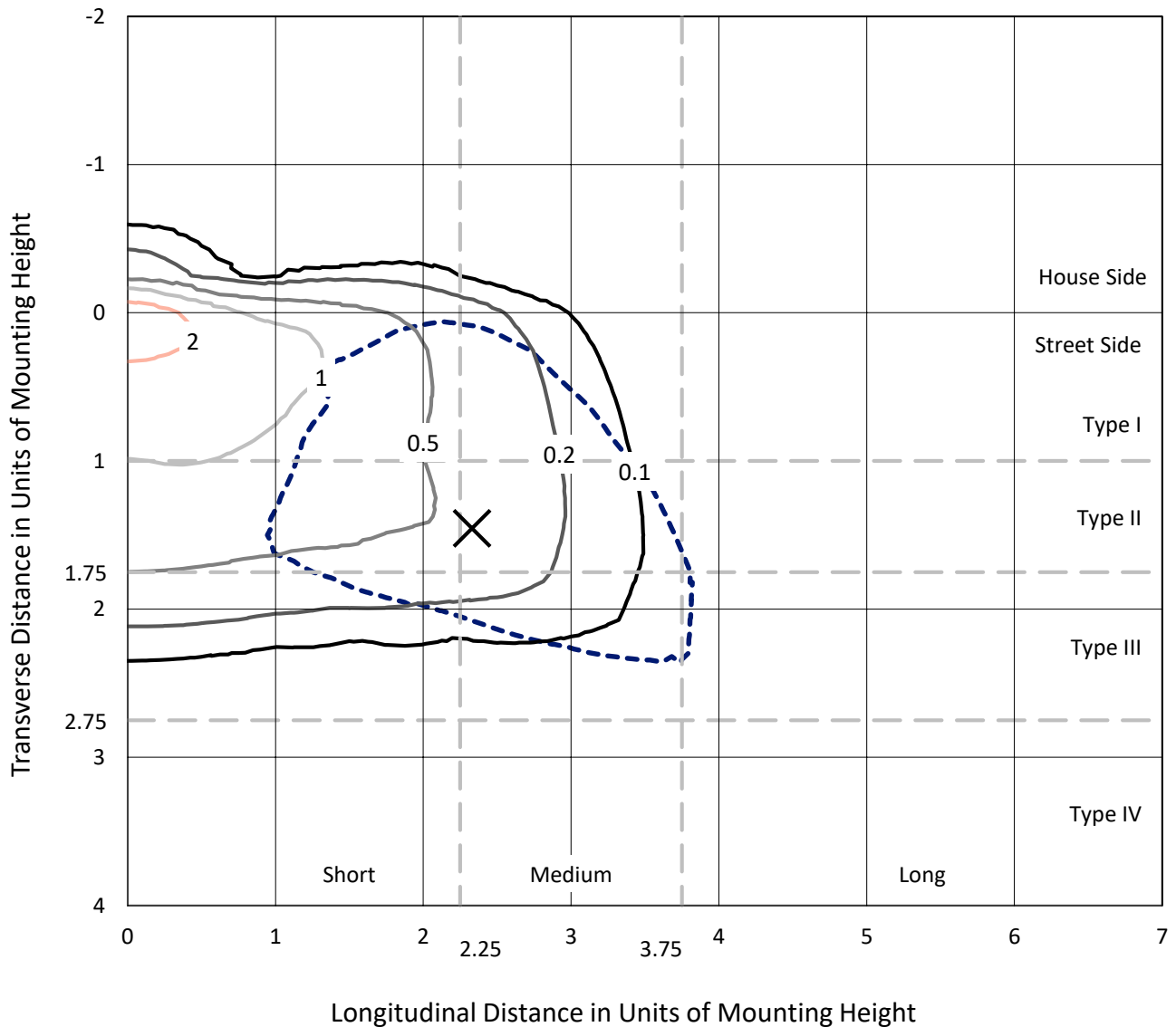
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

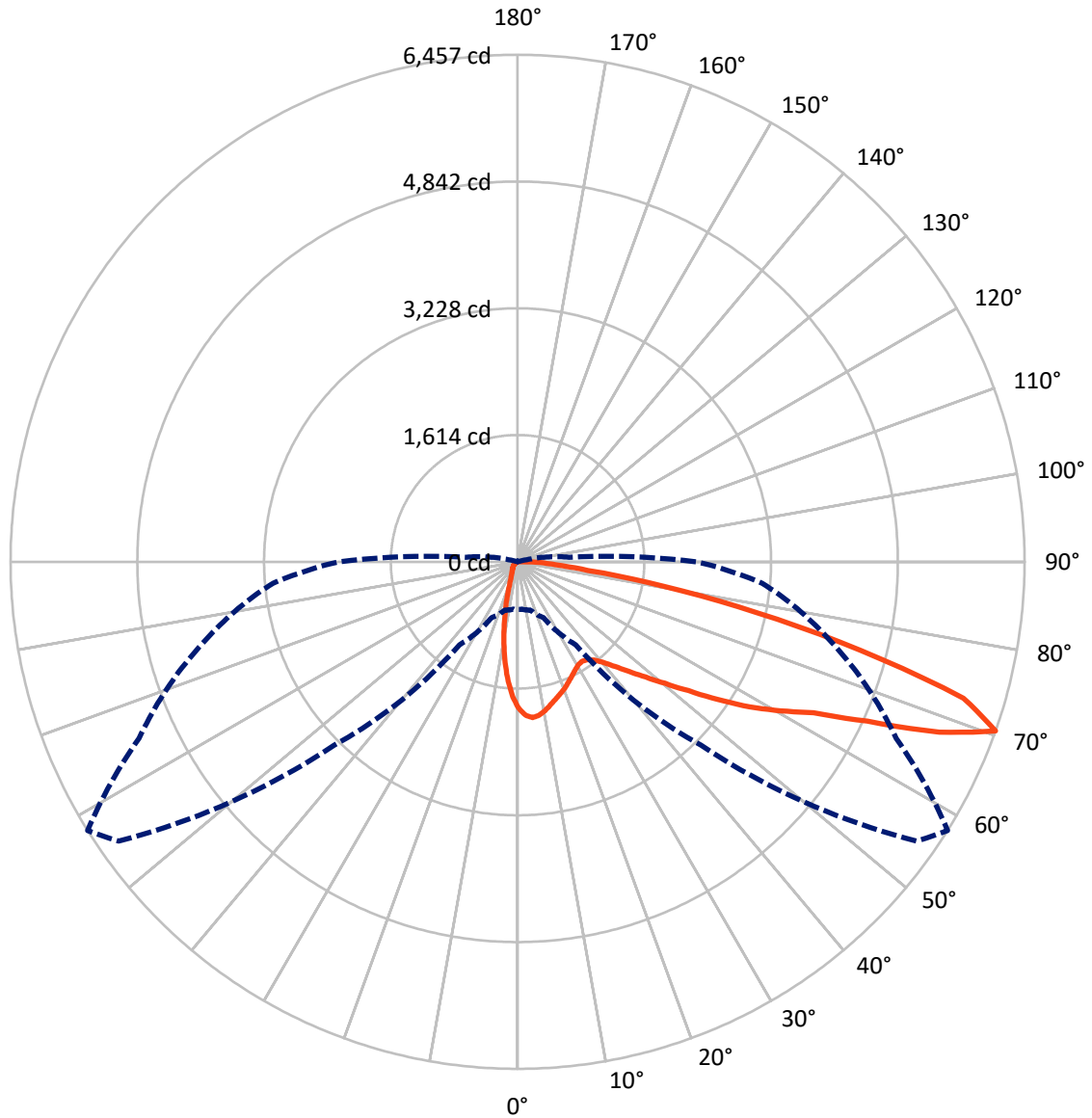
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	540.9	0.0	540.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	5780.1	0.0	5780.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	6321.0	0.0	6321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	2.4
10°-20°	320.5	5.1
20°-30°	421.3	6.7
30°-40°	558.0	8.8
40°-50°	834.0	13.2
50°-60°	1336.0	21.1
60°-70°	1684.0	26.6
70°-80°	908.3	14.4
80°-90°	106.3	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°	6321.0	100.0
0°-180°	6321.0	100.0

Coefficient of Utilization

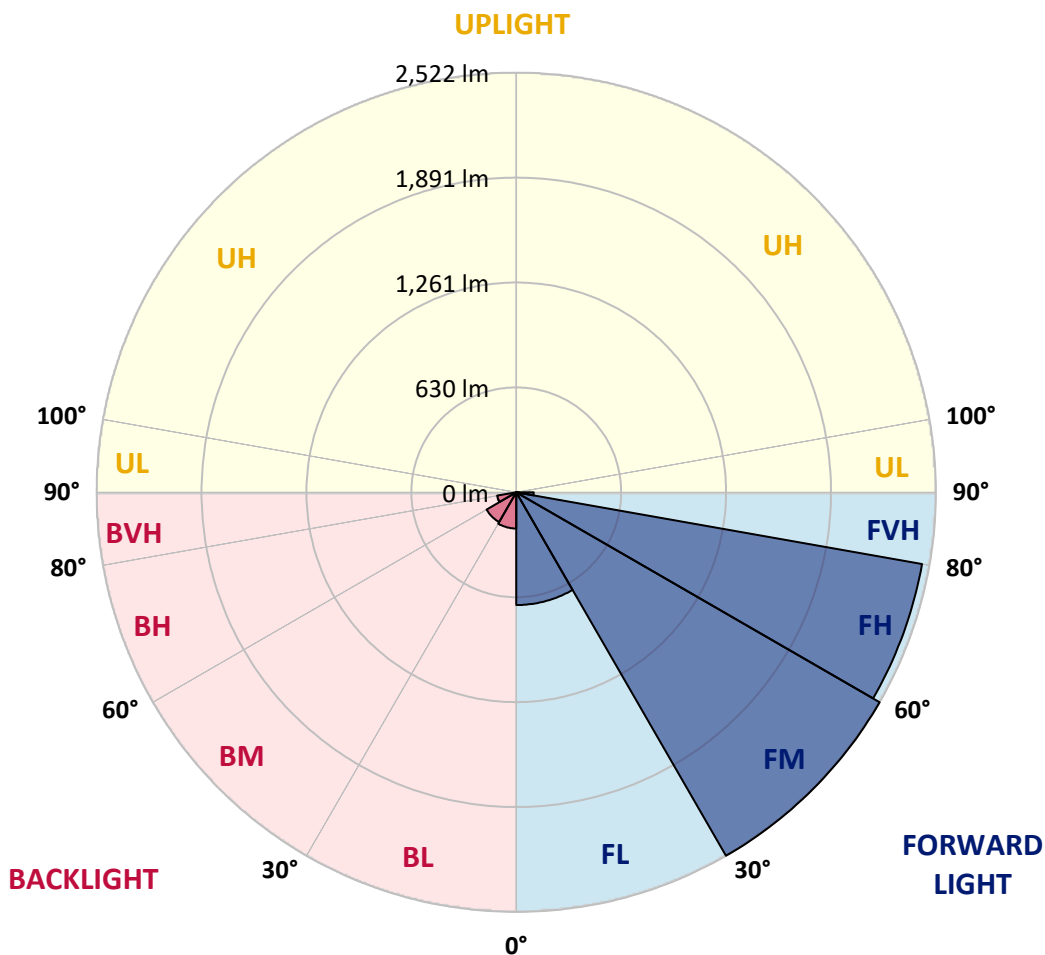


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.1	10.7			
FM (30°-60°)	2521.5	39.9			
FH (60°-80°)	2476.0	39.2			G2/5000
FVH (80°-90°)	105.4	1.7			G2/225
BL (0°-30°)	217.3	3.4	B1/500		
BM (30°-60°)	206.4	3.3	B0/220		
BH (60°-80°)	116.3	1.8	B1/500		G1/500
BVH (80°-90°)	0.9	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





REPORT NUMBER: P323495

CATALOG NUMBER: GAN-SA1D-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2
2.5°	2022.0	2017.0	2015.2	2012.0	1999.9	1988.1	1964.7	1958.1	1943.4	1908.5	1871.4
5°	2023.6	2023.3	2028.8	2027.5	2023.3	2017.8	2001.0	1992.3	1967.3	1917.4	1849.6
7.5°	1926.1	1931.1	1943.4	1953.4	1965.0	1980.0	1982.1	1973.6	1953.1	1899.3	1809.4
10°	1795.2	1803.1	1820.4	1840.1	1870.3	1900.3	1927.1	1926.1	1919.0	1865.9	1761.0
12.5°	1664.0	1673.2	1693.2	1722.4	1765.2	1814.1	1861.9	1868.5	1880.3	1835.9	1716.3
15°	1549.2	1557.0	1576.8	1612.5	1665.6	1731.3	1801.5	1813.6	1844.1	1812.5	1679.0
17.5°	1451.6	1456.6	1471.1	1510.8	1572.3	1651.9	1743.1	1766.8	1812.3	1794.1	1646.7
20°	1383.6	1384.4	1393.8	1421.7	1483.2	1572.3	1682.7	1716.6	1778.6	1778.4	1613.3
22.5°	1349.9	1347.3	1349.1	1365.2	1410.4	1496.3	1622.2	1662.4	1748.4	1764.9	1579.4
25°	1343.6	1341.5	1336.3	1338.4	1365.7	1429.8	1561.3	1607.8	1721.8	1756.8	1549.9
27.5°	1363.3	1365.4	1356.5	1347.0	1349.1	1386.7	1507.1	1561.0	1700.3	1756.8	1529.2
30°	1403.0	1404.1	1397.5	1385.2	1368.6	1374.6	1469.5	1523.4	1689.5	1768.9	1516.0
32.5°	1446.9	1452.7	1451.9	1441.9	1418.3	1393.8	1460.6	1509.7	1688.7	1795.7	1514.7
35°	1501.3	1507.9	1518.9	1516.8	1492.1	1451.9	1491.1	1529.7	1704.2	1839.9	1528.9
37.5°	1559.1	1569.1	1592.8	1604.1	1588.1	1542.6	1559.4	1587.0	1745.8	1911.4	1564.9
40°	1615.1	1626.4	1669.5	1714.0	1701.9	1655.1	1663.0	1685.0	1819.6	2014.1	1633.3
42.5°	1670.1	1686.9	1750.2	1823.3	1837.8	1800.4	1804.6	1822.2	1929.2	2155.5	1745.0
45°	1735.8	1754.7	1848.5	1938.7	1977.3	1961.0	1978.9	1990.5	2072.5	2342.4	1895.6
47.5°	1832.2	1854.1	1969.2	2071.9	2139.8	2150.3	2186.3	2193.9	2253.6	2560.0	2091.9
50°	2020.4	2026.5	2130.6	2223.9	2321.6	2384.7	2425.7	2431.5	2472.8	2797.9	2337.1
52.5°	2257.2	2261.2	2320.1	2382.6	2493.8	2622.6	2718.5	2726.7	2735.3	3029.7	2579.2
55°	2492.5	2492.0	2530.9	2567.7	2694.9	2882.0	3090.2	3095.2	3032.9	3249.7	2764.3
57.5°	2639.4	2653.6	2712.7	2760.1	2937.7	3177.7	3466.6	3485.0	3345.4	3412.7	2947.2
60°	2592.6	2599.5	2730.6	2905.7	3240.3	3598.0	3847.4	3852.1	3580.4	3575.4	3178.5
62.5°	2208.9	2212.6	2418.6	2779.5	3393.5	4143.1	4306.8	4229.8	3850.6	3801.1	3455.3
65°	1513.9	1537.9	1710.0	2156.1	3112.0	4485.0	5018.1	4890.6	4262.4	4126.5	3705.5
67.5°	891.5	886.5	971.7	1300.3	2285.6	4258.0	5917.8	5791.1	4824.1	4344.4	3632.1
70°	609.0	605.6	638.2	787.2	1290.3	3303.1	6200.8	6456.6	5320.1	4197.8	3125.9
72.5°	434.7	436.6	484.7	611.6	810.1	1924.5	5332.4	5937.7	5164.7	3659.5	2376.0
75°	295.2	300.2	369.0	501.8	710.2	979.1	3784.1	4513.7	4205.7	2659.6	1365.7
77.5°	158.8	164.3	245.5	404.2	642.1	680.2	2434.1	3106.5	2641.8	1195.6	395.8
80°	66.2	69.4	114.9	293.9	554.8	597.4	1432.2	1883.8	1125.7	235.8	88.3
82.5°	28.6	30.2	47.8	175.3	414.8	504.4	758.3	906.3	341.2	51.8	44.4
85°	5.5	5.8	19.7	92.8	264.7	284.7	491.5	481.8	153.2	22.3	32.3
87.5°	0.0	0.0	4.7	29.2	77.8	155.1	299.9	296.2	52.0	10.8	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323495

CATALOG NUMBER: GAN-SA1D-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2	1867.2
2.5°	1852.5	1834.3	1796.2	1749.2	1713.2	1673.5	1641.9	1602.0	1584.6	1585.4	1576.0
5°	1810.9	1773.6	1689.3	1582.8	1500.8	1416.2	1343.4	1270.8	1228.0	1214.0	1200.9
7.5°	1751.5	1692.4	1557.8	1393.8	1255.0	1119.4	1001.4	897.6	831.9	799.8	788.0
10°	1684.5	1601.5	1406.7	1190.7	992.5	809.0	656.0	523.0	470.0	433.9	424.7
12.5°	1625.6	1513.2	1259.0	982.2	747.0	525.7	379.8	297.0	261.0	246.8	244.4
15°	1570.2	1430.6	1116.8	793.5	517.3	323.6	241.5	213.4	205.0	202.6	202.6
17.5°	1517.9	1352.0	977.8	607.7	342.2	226.8	200.0	193.7	191.1	190.8	191.1
20°	1463.2	1273.4	841.1	445.2	238.9	192.1	184.8	181.4	180.6	180.6	180.6
22.5°	1410.9	1194.9	708.1	318.0	191.6	175.3	171.6	169.3	168.5	168.2	167.7
25°	1360.7	1120.2	578.2	224.7	168.2	160.6	157.4	154.3	151.9	150.6	149.8
27.5°	1319.4	1053.7	457.3	180.3	151.9	145.3	141.4	136.7	130.9	128.3	127.2
30°	1286.6	993.0	352.5	152.2	136.7	130.1	124.1	115.9	107.5	103.0	102.8
32.5°	1260.8	933.3	267.6	134.6	123.0	114.9	106.2	95.9	86.2	81.2	81.0
35°	1248.2	880.8	204.5	121.7	110.9	100.7	89.9	78.6	69.1	64.4	63.9
37.5°	1256.6	836.3	159.5	110.9	100.7	88.8	76.2	64.4	56.0	51.8	51.5
40°	1287.4	808.0	129.6	101.7	92.0	77.5	63.9	52.8	45.7	42.3	42.1
42.5°	1352.8	797.4	110.7	94.1	83.6	67.0	53.1	43.6	37.1	34.7	34.2
45°	1462.2	813.0	97.8	86.7	74.9	57.0	43.9	35.7	30.0	28.1	27.9
47.5°	1607.8	853.7	88.6	79.6	67.0	48.1	36.5	28.9	24.4	22.6	22.3
50°	1795.4	918.4	81.0	72.5	59.7	40.7	30.2	22.9	18.9	17.6	17.6
52.5°	1999.7	995.4	74.1	66.0	52.3	33.9	24.4	17.6	15.0	13.4	13.4
55°	2168.4	1062.6	66.8	61.0	43.4	28.1	18.7	13.4	11.0	10.3	10.3
57.5°	2336.9	1134.4	58.3	52.3	34.7	22.9	14.2	10.0	8.1	7.6	7.6
60°	2555.3	1222.2	50.2	42.6	27.3	17.3	10.5	7.1	6.0	5.8	5.8
62.5°	2795.5	1273.7	42.8	34.2	21.3	12.9	7.6	4.7	4.5	4.5	4.2
65°	2942.5	1200.9	36.0	27.3	16.6	9.7	5.0	3.4	3.9	3.7	3.2
67.5°	2755.1	940.2	29.4	21.3	12.9	7.4	3.2	2.4	4.2	3.4	2.6
70°	2281.2	658.1	22.9	15.0	10.3	6.3	2.1	1.6	4.5	3.4	2.1
72.5°	1707.1	440.5	18.1	10.0	7.6	5.5	1.8	0.8	3.9	2.9	1.8
75°	932.8	177.4	14.5	6.3	4.7	3.9	1.3	0.5	2.6	2.1	1.3
77.5°	245.5	46.8	10.5	4.2	2.6	1.6	0.8	0.3	1.3	1.1	0.5
80°	62.6	18.1	6.8	2.9	1.8	0.8	0.0	0.0	0.3	0.0	0.0
82.5°	33.4	7.6	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.2	5.0	2.4	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	1.6	0.8	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)