

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: P484120

Luminaire Tested: **IFLD-S-SA2C-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484120
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

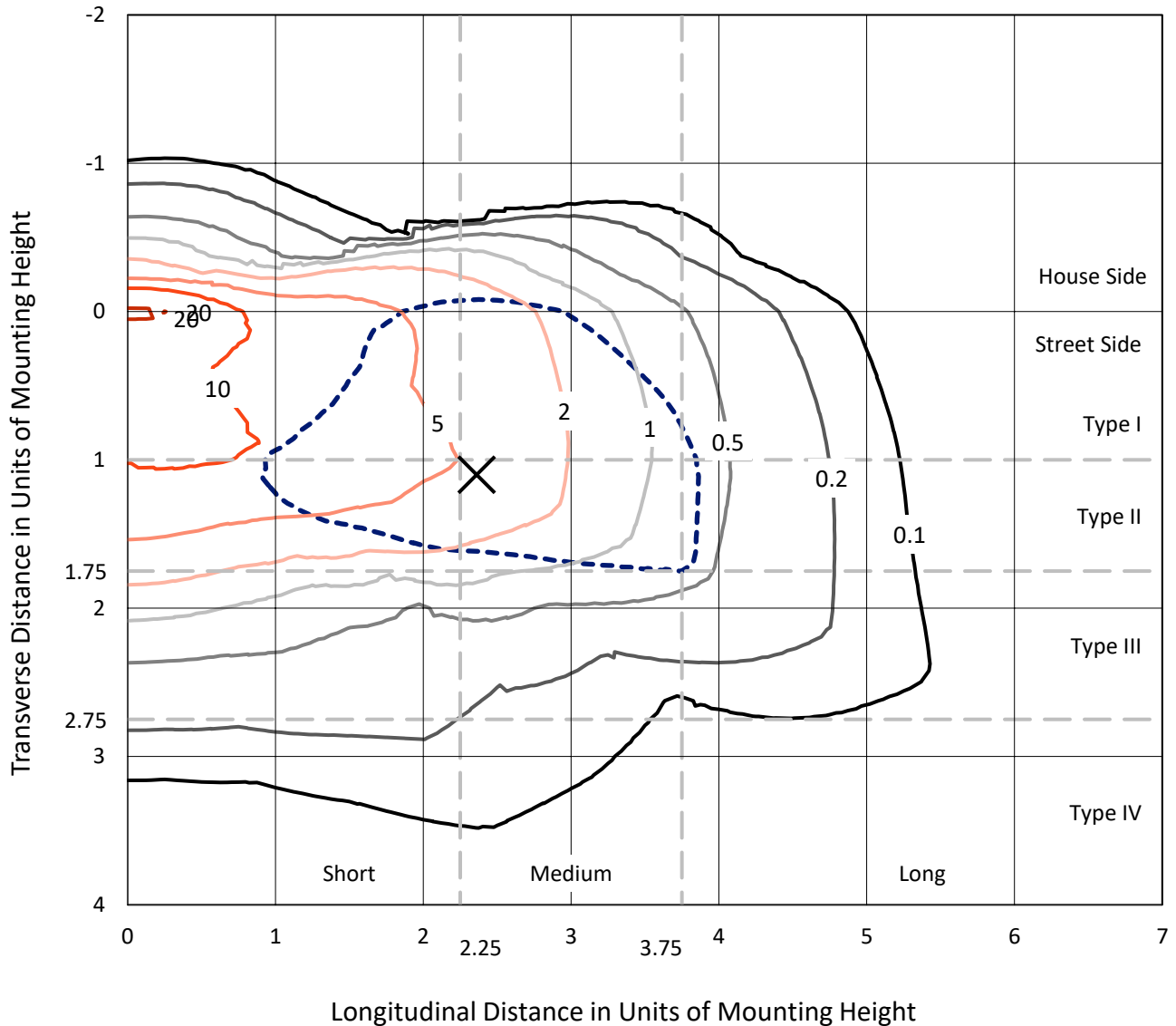
Lumens per Lamp: N/A
Luminaire Lumens: 8599.5 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
Input Voltage (V): 120
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

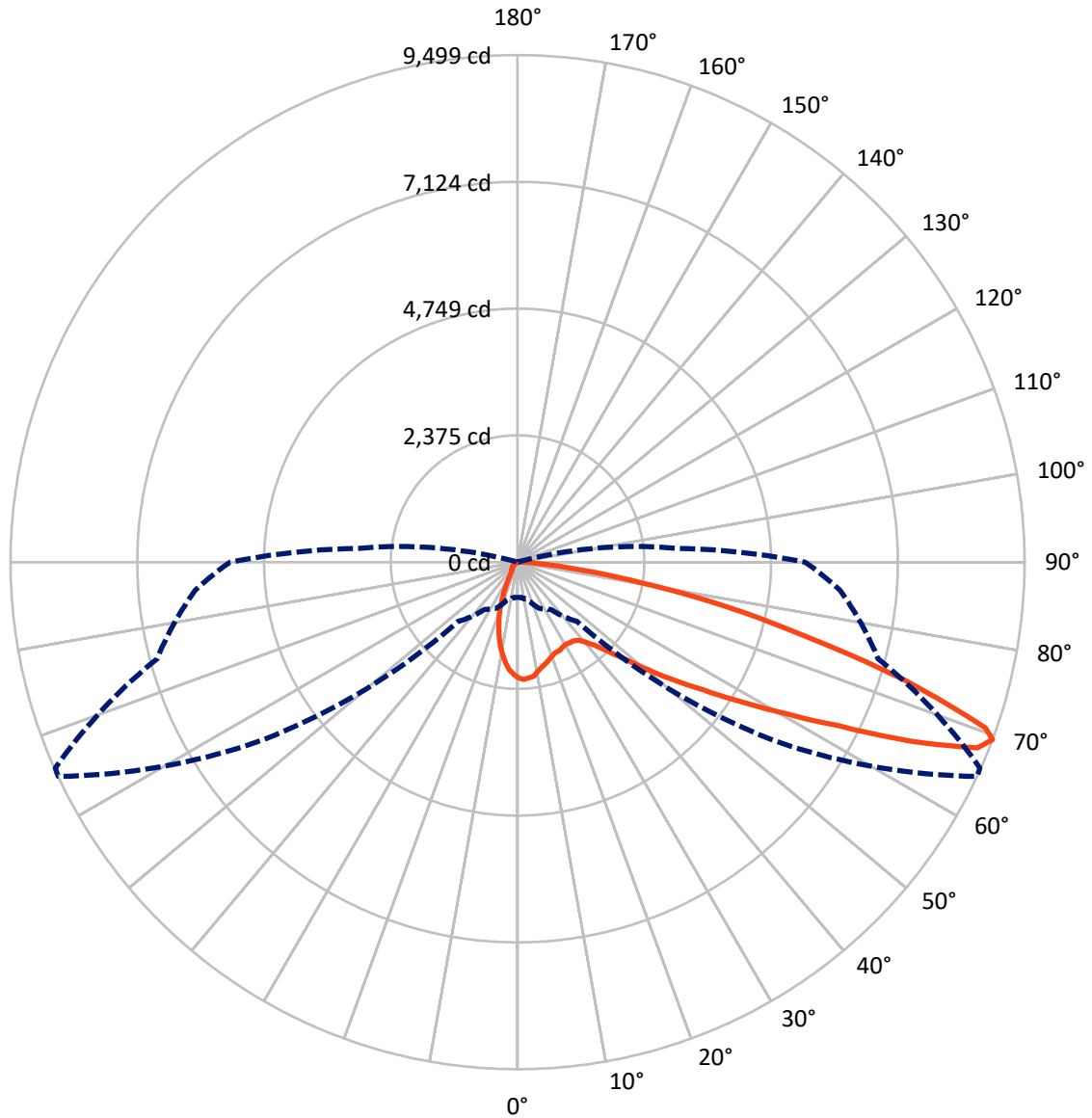
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1043.2	0.0	1043.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7556.3	0.0	7556.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	8599.5	0.0	8599.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.1
10°-20°	388.2	4.5
20°-30°	540.5	6.3
30°-40°	765.9	8.9
40°-50°	1207.0	14.0
50°-60°	1958.6	22.8
60°-70°	2187.3	25.4
70°-80°	1231.7	14.3
80°-90°	142.9	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°	8599.5	100.0
0°-180°	8599.5	100.0

Coefficient of Utilization

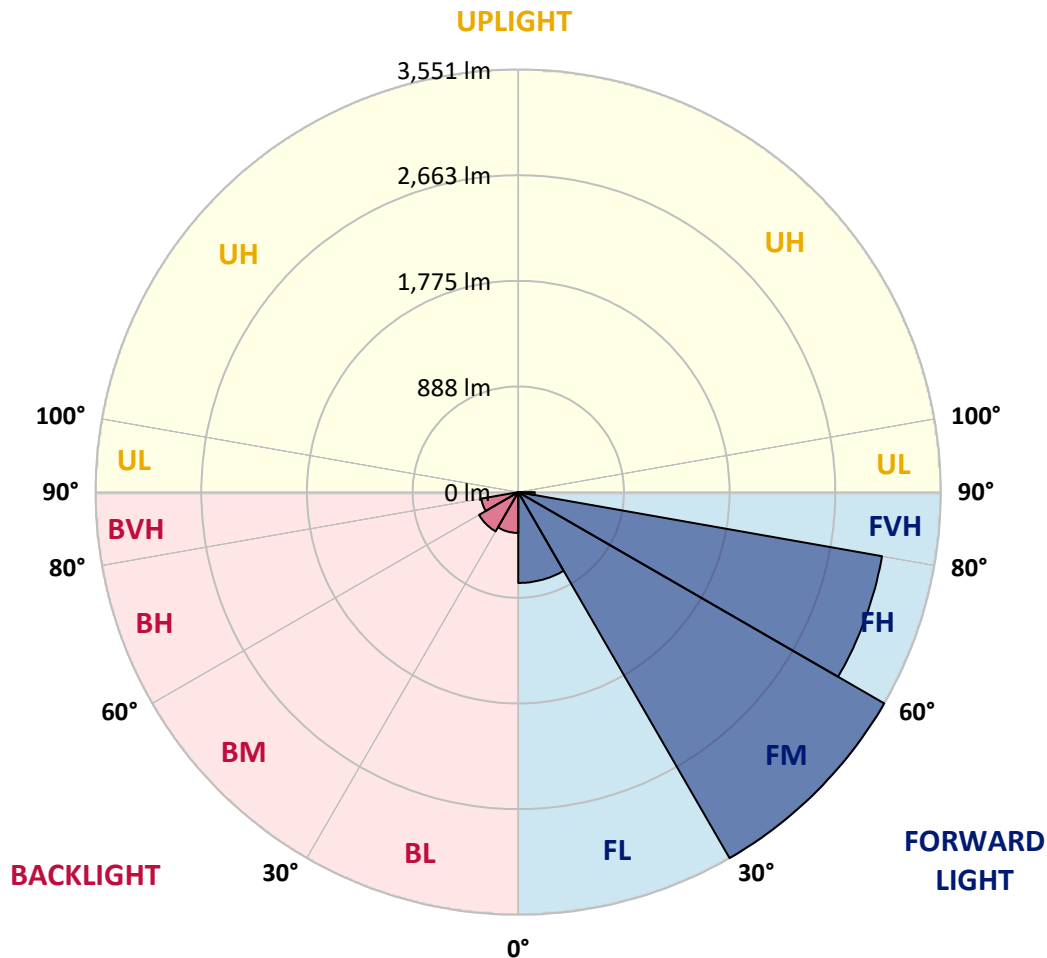


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.1	8.9			
FM (30°-60°)	3550.8	41.3			
FH (60°-80°)	3103.4	36.1			G2/5000
FVH (80°-90°)	139.0	1.6			G2/225
BL (0°-30°)	343.0	4.0	B1/500		
BM (30°-60°)	380.6	4.4	B1/1000		
BH (60°-80°)	315.6	3.7	B1/500		G1/500
BVH (80°-90°)	3.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1
2.5°	2088.1	2104.3	2109.0	2125.2	2133.3	2168.1	2187.8	2199.4	2193.6	2206.4	2207.6
5°	1939.6	1930.3	1954.7	1972.1	2009.2	2069.5	2131.0	2178.6	2200.6	2221.5	2218.0
7.5°	1780.7	1776.0	1800.4	1839.8	1873.5	1946.6	2045.2	2162.3	2157.7	2208.7	2223.8
10°	1671.6	1676.3	1684.4	1723.8	1773.7	1848.0	1970.9	2080.0	2104.3	2212.2	2242.4
12.5°	1571.9	1580.0	1595.1	1635.7	1693.7	1770.2	1889.7	2017.3	2054.4	2192.5	2252.8
15°	1539.4	1520.8	1551.0	1581.1	1641.5	1709.9	1810.8	1969.8	1986.0	2169.3	2270.2
17.5°	1512.7	1501.1	1515.0	1539.4	1603.2	1658.9	1754.0	1918.7	1948.9	2160.0	2267.9
20°	1520.8	1510.4	1516.2	1534.7	1563.7	1615.9	1704.1	1870.0	1902.5	2117.1	2264.4
22.5°	1544.0	1552.1	1541.7	1546.3	1555.6	1582.3	1677.4	1835.2	1863.0	2109.0	2284.1
25°	1648.4	1634.5	1620.6	1614.8	1560.3	1571.9	1669.3	1832.9	1852.6	2080.0	2267.9
27.5°	1757.5	1745.9	1740.1	1706.4	1632.2	1597.4	1670.5	1800.4	1827.1	2068.4	2248.2
30°	1889.7	1904.8	1881.6	1841.0	1737.7	1651.9	1683.2	1784.2	1821.3	2024.3	2235.4
32.5°	2028.9	2037.0	2048.6	2018.5	1885.1	1734.3	1721.5	1799.2	1801.6	2024.3	2206.4
35°	2186.7	2175.1	2205.2	2207.6	2090.4	1880.4	1794.6	1809.7	1834.0	2015.0	2196.0
37.5°	2322.4	2342.1	2376.9	2432.6	2312.0	2086.9	1908.3	1858.4	1868.8	2057.9	2204.1
40°	2470.9	2490.6	2569.5	2625.2	2556.7	2318.9	2081.1	1972.1	1980.2	2121.7	2245.9
42.5°	2634.5	2672.7	2766.7	2864.2	2845.6	2613.6	2303.9	2139.1	2135.6	2280.7	2331.7
45°	2856.0	2907.1	3009.2	3121.7	3137.9	2951.2	2600.8	2388.5	2400.1	2488.3	2509.2
47.5°	3164.6	3162.3	3262.1	3387.3	3481.3	3301.5	2955.8	2723.8	2722.6	2816.6	2772.5
50°	3462.7	3463.9	3490.6	3635.6	3879.2	3787.6	3395.5	3169.2	3156.5	3202.9	3132.1
52.5°	3600.8	3584.5	3564.8	3740.0	4185.4	4400.1	3952.3	3673.9	3663.4	3635.6	3617.0
55°	3455.8	3461.6	3460.4	3642.5	4346.7	5046.2	4666.9	4229.5	4212.1	4125.1	4150.6
57.5°	2990.6	2972.0	3012.6	3296.9	4162.2	5487.0	5688.9	4930.2	4885.0	4596.1	4538.1
60°	2226.1	2231.9	2265.6	2600.8	3704.0	5579.8	6666.8	5752.7	5557.8	4927.9	4847.8
62.5°	1554.5	1542.9	1555.6	1743.6	2648.4	5208.6	7328.0	6752.6	6564.7	5304.9	5258.5
65°	1112.5	1097.4	1148.4	1263.3	1590.4	3982.4	7422.0	8084.4	7916.2	5907.0	5795.6
67.5°	800.4	798.1	857.3	1066.1	1129.9	2293.4	6726.0	9290.8	9188.7	6621.5	6122.7
69°	662.4	663.5	720.4	954.7	1078.8	1566.1	5787.5	9498.5	9479.9	6990.4	6061.2
70°	577.7	582.3	648.5	888.6	1058.0	1287.7	4989.4	9294.3	9275.7	7062.4	5858.2
72.5°	356.1	359.6	446.6	712.3	1005.8	1051.0	2983.6	7604.1	7667.9	6732.9	5047.4
75°	170.5	171.7	234.3	515.1	969.8	996.5	1598.5	5611.1	5745.7	5436.0	3944.2
77.5°	90.5	90.5	112.5	273.8	785.4	937.3	948.9	3958.1	4069.4	3437.2	2242.4
80°	45.2	46.4	68.4	142.7	487.2	918.8	741.3	2360.7	2421.0	1402.5	698.3
82.5°	17.4	18.6	32.5	85.8	252.9	776.1	650.8	1161.2	1146.1	328.3	170.5
85°	2.3	2.3	11.6	51.0	107.9	342.2	537.1	484.9	468.7	71.9	82.4
87.5°	0.0	0.0	2.3	15.1	32.5	99.8	207.6	133.4	148.5	19.7	40.6
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°	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1
2.5°	2201.8	2177.4	2140.3	2104.3	2066.0	2019.6	1968.6	1950.0	1917.6	1915.2	1933.8
5°	2199.4	2160.0	2095.0	2018.5	1909.4	1827.1	1737.7	1672.8	1622.9	1590.4	1598.5
7.5°	2211.0	2163.5	2051.0	1886.2	1745.9	1582.3	1444.3	1349.1	1262.1	1219.2	1214.6
10°	2192.5	2128.7	1964.0	1733.1	1526.6	1298.1	1096.2	968.6	838.7	791.2	793.5
12.5°	2202.9	2113.6	1870.0	1575.3	1291.1	994.2	752.9	578.9	457.1	417.6	413.0
15°	2209.9	2081.1	1779.5	1386.3	1030.1	677.5	436.2	328.3	290.0	283.1	281.9
17.5°	2183.2	2041.7	1651.9	1199.5	763.3	411.8	290.0	268.0	261.0	256.4	254.1
20°	2182.0	2018.5	1541.7	1008.1	509.3	280.7	250.6	242.4	232.0	228.5	228.5
22.5°	2162.3	1969.8	1409.5	798.1	324.8	241.3	225.0	212.3	200.7	196.0	194.9
25°	2156.5	1912.9	1285.3	599.7	247.1	215.8	199.5	181.0	167.0	160.1	156.6
27.5°	2140.3	1864.2	1160.0	422.3	215.8	192.6	171.7	152.0	135.7	125.3	124.1
30°	2082.3	1813.2	1020.8	292.3	196.0	170.5	147.3	124.1	107.9	100.9	98.6
32.5°	2057.9	1765.6	868.9	225.0	178.6	150.8	124.1	103.2	90.5	83.5	82.4
35°	2028.9	1696.0	721.5	196.0	162.4	131.1	104.4	87.0	76.6	70.8	70.8
37.5°	2032.4	1640.3	583.5	177.5	145.0	112.5	89.3	74.2	65.0	59.2	59.2
40°	2022.0	1596.2	453.6	161.2	128.8	96.3	75.4	62.6	54.5	48.7	47.6
42.5°	2069.5	1584.6	342.2	147.3	112.5	82.4	65.0	53.4	45.2	38.3	38.3
45°	2149.6	1603.2	266.8	134.6	96.3	70.8	55.7	44.1	36.0	31.3	30.2
47.5°	2363.0	1676.3	208.8	124.1	82.4	61.5	46.4	36.0	29.0	24.4	23.2
50°	2672.7	1839.8	177.5	109.0	69.6	52.2	38.3	27.8	23.2	18.6	17.4
52.5°	3113.6	2114.8	161.2	96.3	58.0	42.9	30.2	22.0	17.4	13.9	12.8
55°	3593.8	2458.1	146.2	81.2	48.7	34.8	24.4	17.4	12.8	9.3	8.1
57.5°	3968.5	2755.1	133.4	67.3	39.4	27.8	18.6	12.8	9.3	5.8	4.6
60°	4378.0	2963.9	117.2	53.4	32.5	20.9	13.9	9.3	7.0	3.5	3.5
62.5°	4800.3	3208.7	96.3	41.8	25.5	16.2	10.4	7.0	4.6	1.2	1.2
65°	5387.3	3400.1	74.2	32.5	19.7	11.6	8.1	5.8	2.3	0.0	0.0
67.5°	5553.1	3306.1	54.5	25.5	13.9	8.1	5.8	3.5	1.2	0.0	0.0
69°	5387.3	2977.8	47.6	22.0	11.6	7.0	4.6	2.3	1.2	0.0	0.0
70°	5084.5	2722.6	41.8	18.6	10.4	7.0	3.5	2.3	1.2	0.0	0.0
72.5°	4252.7	2088.1	32.5	13.9	8.1	5.8	3.5	2.3	0.0	0.0	0.0
75°	3119.4	1290.0	24.4	10.4	7.0	4.6	3.5	2.3	0.0	0.0	0.0
77.5°	1671.6	471.0	17.4	7.0	4.6	3.5	3.5	2.3	0.0	0.0	0.0
80°	458.2	139.2	12.8	4.6	3.5	2.3	2.3	1.2	0.0	0.0	0.0
82.5°	125.3	36.0	8.1	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0
85°	67.3	13.9	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	34.8	4.6	3.5	2.3	2.3	1.2	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)