

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: P484162

Luminaire Tested: **IFLD-S-SA3A-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484162
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

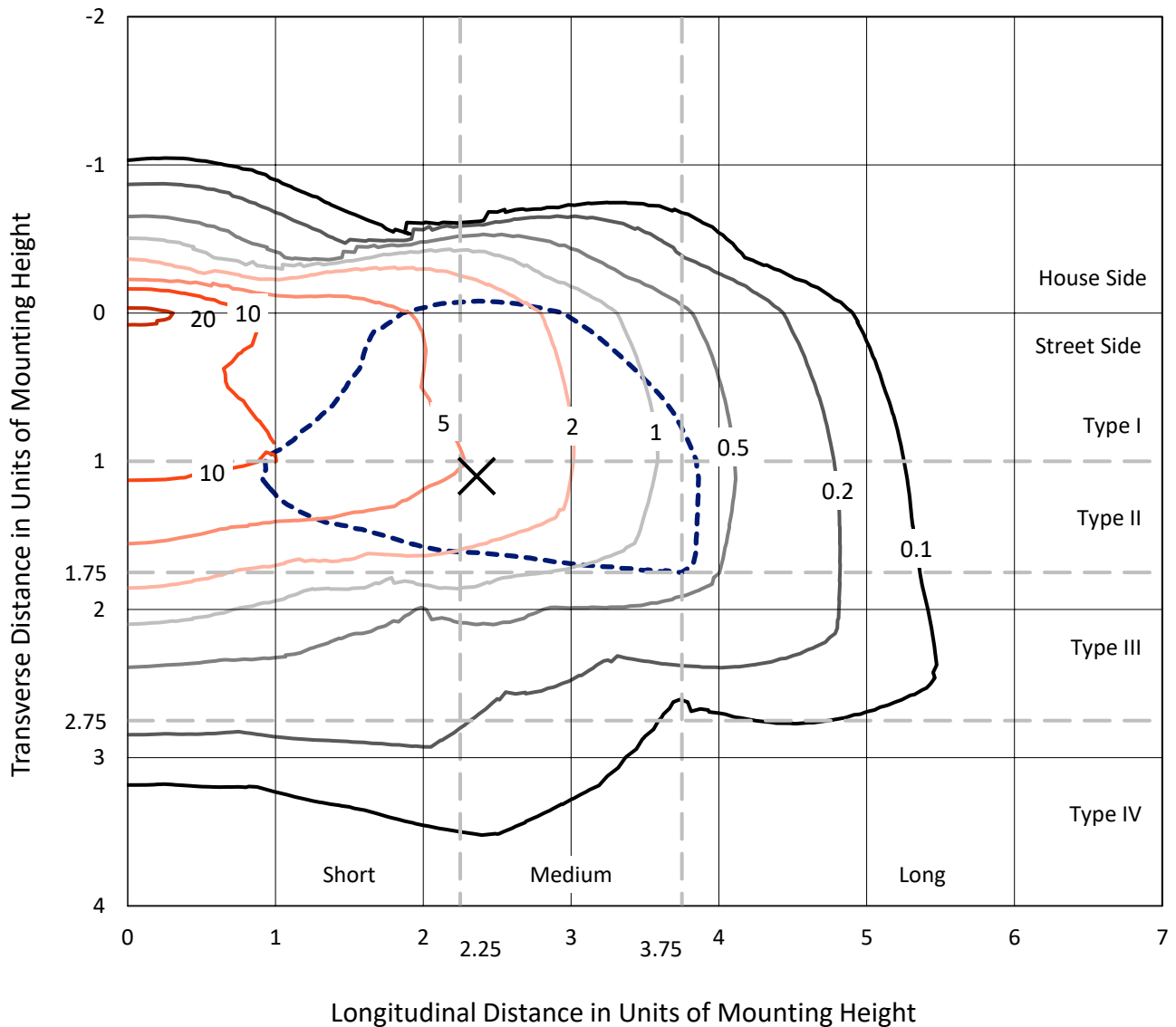
Lumens per Lamp: N/A
Luminaire Lumens: 8998 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

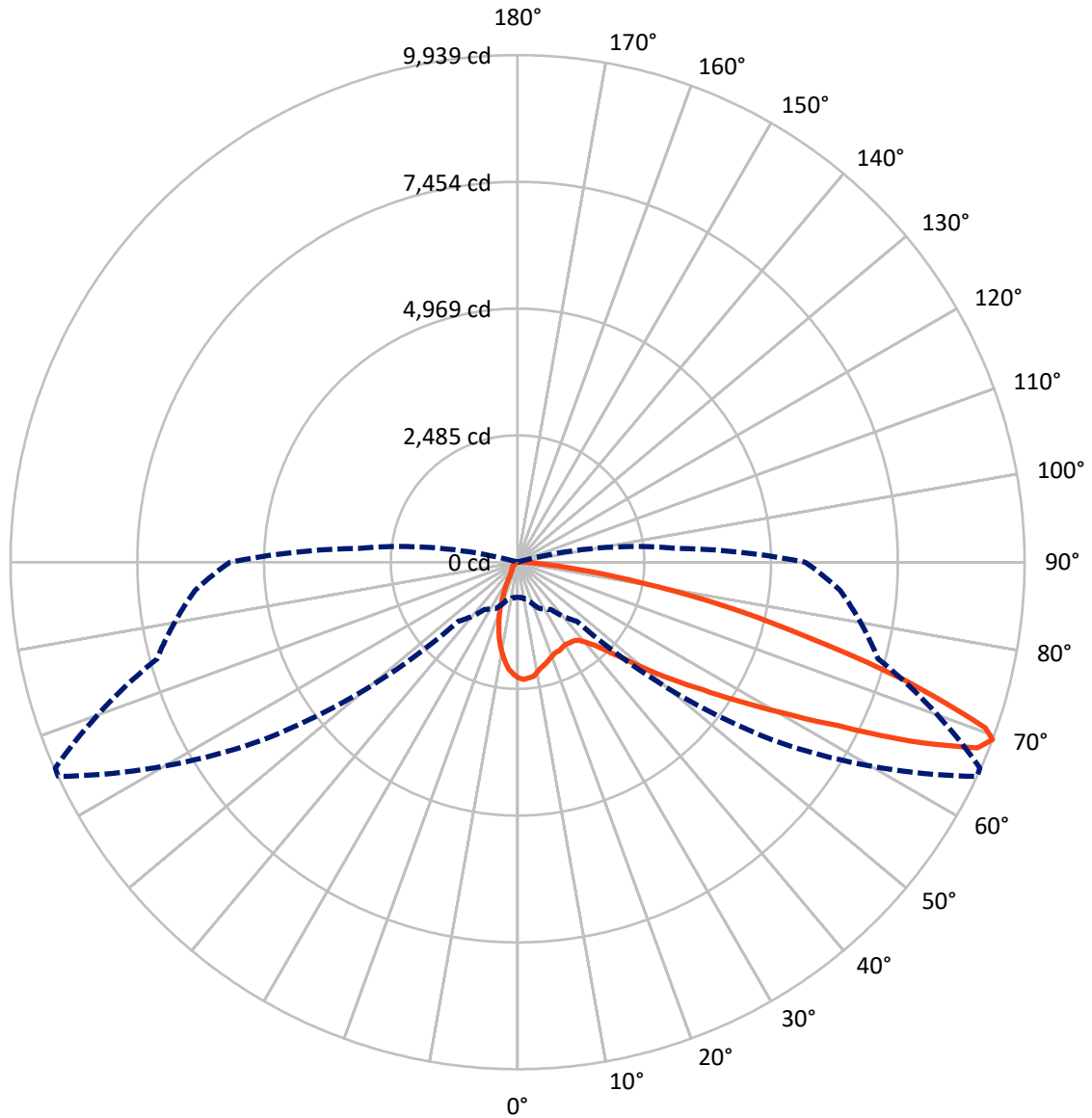
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 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	1091.5	0.0	1091.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7906.5	0.0	7906.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	8998.0	0.0	8998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	2.1
10°-20°	406.2	4.5
20°-30°	565.5	6.3
30°-40°	801.4	8.9
40°-50°	1262.9	14.0
50°-60°	2049.3	22.8
60°-70°	2288.7	25.4
70°-80°	1288.8	14.3
80°-90°	149.5	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°	8998.0	100.0
0°-180°	8998.0	100.0

Coefficient of Utilization



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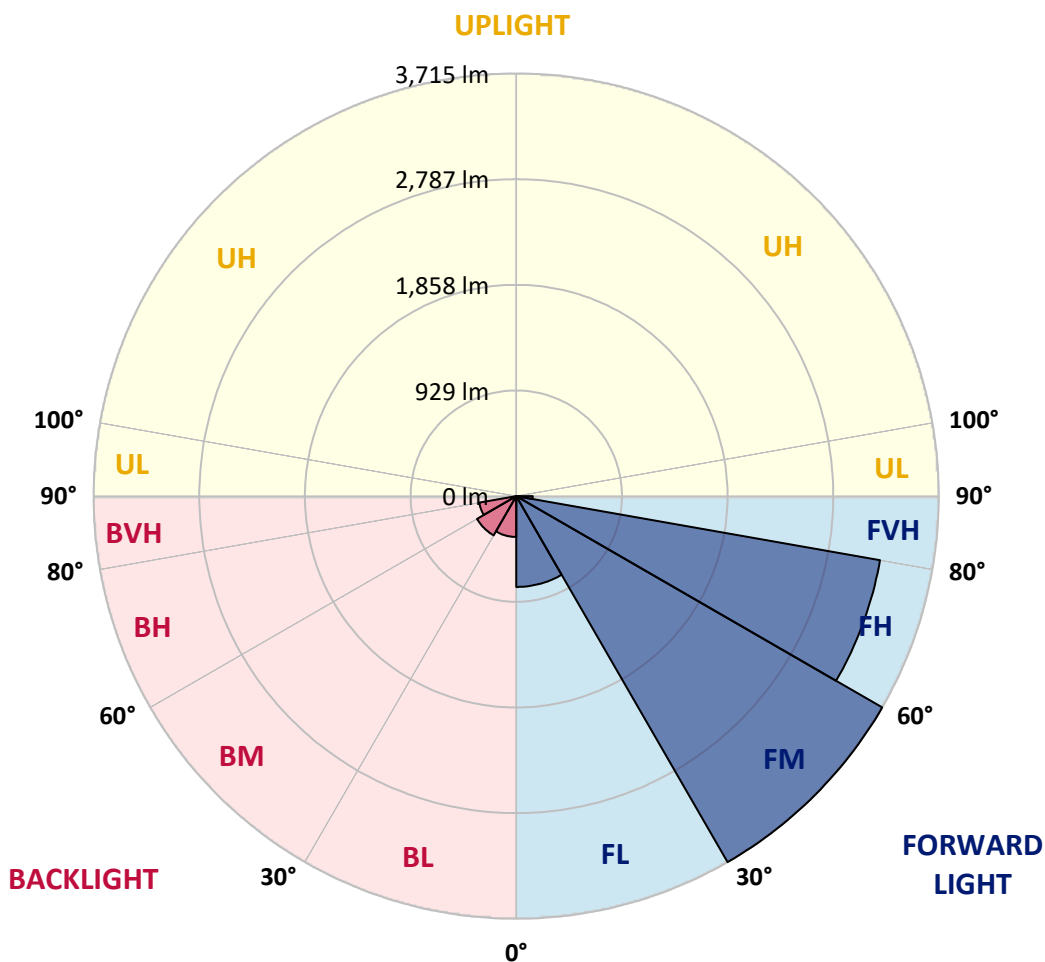
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.5	8.9			
FM (30°-60°)	3715.4	41.3			
FH (60°-80°)	3247.2	36.1			G2/5000
FVH (80°-90°)	145.4	1.6			G2/225
BL (0°-30°)	358.9	4.0	B1/500		
BM (30°-60°)	398.3	4.4	B1/1000		
BH (60°-80°)	330.2	3.7	B1/500		G1/500
BVH (80°-90°)	4.1	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°	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6
2.5°	2184.9	2201.9	2206.7	2223.7	2232.2	2268.6	2289.2	2301.4	2295.3	2308.7	2309.9
5°	2029.5	2019.8	2045.3	2063.5	2102.3	2165.4	2229.8	2279.5	2302.6	2324.5	2320.8
7.5°	1863.2	1858.3	1883.8	1925.1	1960.3	2036.8	2140.0	2262.5	2257.7	2311.1	2326.9
10°	1749.1	1754.0	1762.5	1803.7	1855.9	1933.6	2062.3	2176.4	2201.9	2314.7	2346.3
12.5°	1644.7	1653.2	1669.0	1711.5	1772.2	1852.3	1977.3	2110.8	2149.7	2294.1	2357.2
15°	1610.7	1591.3	1622.9	1654.4	1717.5	1789.2	1894.8	2061.1	2078.0	2269.8	2375.4
17.5°	1582.8	1570.7	1585.2	1610.7	1677.5	1735.8	1835.3	2007.6	2039.2	2260.1	2373.0
20°	1591.3	1580.4	1586.5	1605.9	1636.2	1690.8	1783.1	1956.7	1990.7	2215.2	2369.4
22.5°	1615.6	1624.1	1613.2	1618.0	1627.7	1655.6	1755.2	1920.3	1949.4	2206.7	2390.0
25°	1724.8	1710.3	1695.7	1689.6	1632.6	1644.7	1746.7	1917.8	1938.5	2176.4	2373.0
27.5°	1838.9	1826.8	1820.7	1785.5	1707.8	1671.4	1747.9	1883.8	1911.8	2164.2	2352.4
30°	1977.3	1993.1	1968.8	1926.3	1818.3	1728.5	1761.2	1866.8	1905.7	2118.1	2339.0
32.5°	2123.0	2131.5	2143.6	2112.0	1972.4	1814.6	1801.3	1882.6	1885.1	2118.1	2308.7
35°	2288.0	2275.9	2307.5	2309.9	2187.3	1967.6	1877.8	1893.5	1919.0	2108.4	2297.7
37.5°	2430.1	2450.7	2487.1	2545.4	2419.1	2183.6	1996.7	1944.5	1955.5	2153.3	2306.2
40°	2585.4	2606.1	2688.6	2746.9	2675.2	2426.4	2177.6	2063.5	2072.0	2220.1	2349.9
42.5°	2756.6	2796.6	2894.9	2996.9	2977.5	2734.7	2410.6	2238.3	2234.6	2386.4	2439.8
45°	2988.4	3041.8	3148.6	3266.4	3283.4	3087.9	2721.4	2499.2	2511.4	2603.6	2625.5
47.5°	3311.3	3308.9	3413.2	3544.3	3642.7	3454.5	3092.8	2850.0	2848.8	2947.1	2901.0
50°	3623.2	3624.4	3652.4	3804.1	4059.0	3963.1	3552.8	3316.1	3302.8	3351.3	3277.3
52.5°	3767.7	3750.7	3730.0	3913.3	4379.4	4604.0	4135.5	3844.1	3833.2	3804.1	3784.7
55°	3615.9	3622.0	3620.8	3811.4	4548.2	5280.1	4883.2	4425.6	4407.4	4316.3	4343.0
57.5°	3129.2	3109.8	3152.3	3449.7	4355.2	5741.3	5952.5	5158.7	5111.4	4809.1	4748.4
60°	2329.3	2335.4	2370.6	2721.4	3875.7	5838.4	6975.8	6019.3	5815.4	5156.3	5072.5
62.5°	1626.5	1614.4	1627.7	1824.4	2771.1	5450.0	7667.7	7065.6	6869.0	5550.8	5502.2
65°	1164.0	1148.3	1201.7	1321.8	1664.1	4167.0	7766.0	8459.1	8283.1	6180.7	6064.2
67.5°	837.5	835.1	897.0	1115.5	1182.3	2399.7	7037.7	9721.4	9614.6	6928.4	6406.5
69°	693.1	694.3	753.8	999.0	1128.8	1638.6	6055.7	9938.7	9919.3	7314.4	6342.2
70°	604.5	609.3	678.5	929.8	1107.0	1347.3	5220.6	9725.1	9705.6	7389.7	6129.8
72.5°	372.6	376.3	467.3	745.3	1052.4	1099.7	3121.9	7956.5	8023.3	7045.0	5281.3
75°	178.4	179.6	245.2	538.9	1014.7	1042.7	1672.6	5871.2	6012.0	5687.9	4127.0
77.5°	94.7	94.7	117.7	286.5	821.8	980.8	992.9	4141.5	4258.1	3596.5	2346.3
80°	47.3	48.6	71.6	149.3	509.8	961.3	775.6	2470.1	2533.2	1467.5	730.7
82.5°	18.2	19.4	34.0	89.8	264.6	812.0	680.9	1215.0	1199.2	343.5	178.4
85°	2.4	2.4	12.1	53.4	112.9	358.1	562.0	507.4	490.4	75.3	86.2
87.5°	0.0	0.0	2.4	15.8	34.0	104.4	217.3	139.6	155.4	20.6	42.5
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°	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6
2.5°	2303.8	2278.3	2239.5	2201.9	2161.8	2113.2	2059.8	2040.4	2006.4	2004.0	2023.4
5°	2301.4	2260.1	2192.1	2112.0	1997.9	1911.8	1818.3	1750.3	1698.1	1664.1	1672.6
7.5°	2313.5	2263.8	2146.0	1973.7	1826.8	1655.6	1511.2	1411.7	1320.6	1275.7	1270.9
10°	2294.1	2227.3	2055.0	1813.4	1597.4	1358.3	1147.1	1013.5	877.6	827.8	830.2
12.5°	2305.0	2211.6	1956.7	1648.4	1351.0	1040.2	787.8	605.7	478.2	437.0	432.1
15°	2312.3	2177.6	1862.0	1450.5	1077.9	708.9	456.4	343.5	303.5	296.2	295.0
17.5°	2284.4	2136.3	1728.5	1255.1	798.7	430.9	303.5	280.4	273.1	268.3	265.8
20°	2283.2	2112.0	1613.2	1054.8	532.9	293.7	262.2	253.7	242.8	239.1	239.1
22.5°	2262.5	2061.1	1474.8	835.1	339.9	252.5	235.5	222.1	210.0	205.1	203.9
25°	2256.5	2001.6	1344.9	627.5	258.5	225.8	208.8	189.4	174.8	167.5	163.9
27.5°	2239.5	1950.6	1213.8	441.8	225.8	201.5	179.6	159.0	142.0	131.1	129.9
30°	2178.8	1897.2	1068.2	305.9	205.1	178.4	154.2	129.9	112.9	105.6	103.2
32.5°	2153.3	1847.4	909.1	235.5	186.9	157.8	129.9	108.0	94.7	87.4	86.2
35°	2123.0	1774.6	755.0	205.1	169.9	137.2	109.2	91.0	80.1	74.0	74.0
37.5°	2126.6	1716.3	610.5	185.7	151.7	117.7	93.5	77.7	68.0	61.9	61.9
40°	2115.7	1670.2	474.6	168.7	134.7	100.7	78.9	65.5	57.0	51.0	49.8
42.5°	2165.4	1658.1	358.1	154.2	117.7	86.2	68.0	55.8	47.3	40.1	40.1
45°	2249.2	1677.5	279.2	140.8	100.7	74.0	58.3	46.1	37.6	32.8	31.6
47.5°	2472.5	1754.0	218.5	129.9	86.2	64.3	48.6	37.6	30.3	25.5	24.3
50°	2796.6	1925.1	185.7	114.1	72.8	54.6	40.1	29.1	24.3	19.4	18.2
52.5°	3257.9	2212.8	168.7	100.7	60.7	44.9	31.6	23.1	18.2	14.6	13.4
55°	3760.4	2572.1	152.9	85.0	51.0	36.4	25.5	18.2	13.4	9.7	8.5
57.5°	4152.5	2882.8	139.6	70.4	41.3	29.1	19.4	13.4	9.7	6.1	4.9
60°	4580.9	3101.3	122.6	55.8	34.0	21.8	14.6	9.7	7.3	3.6	3.6
62.5°	5022.8	3357.4	100.7	43.7	26.7	17.0	10.9	7.3	4.9	1.2	1.2
65°	5636.9	3557.7	77.7	34.0	20.6	12.1	8.5	6.1	2.4	0.0	0.0
67.5°	5810.5	3459.4	57.0	26.7	14.6	8.5	6.1	3.6	1.2	0.0	0.0
69°	5636.9	3115.9	49.8	23.1	12.1	7.3	4.9	2.4	1.2	0.0	0.0
70°	5320.1	2848.8	43.7	19.4	10.9	7.3	3.6	2.4	1.2	0.0	0.0
72.5°	4449.8	2184.9	34.0	14.6	8.5	6.1	3.6	2.4	0.0	0.0	0.0
75°	3263.9	1349.8	25.5	10.9	7.3	4.9	3.6	2.4	0.0	0.0	0.0
77.5°	1749.1	492.8	18.2	7.3	4.9	3.6	3.6	2.4	0.0	0.0	0.0
80°	479.5	145.7	13.4	4.9	3.6	2.4	2.4	1.2	0.0	0.0	0.0
82.5°	131.1	37.6	8.5	4.9	3.6	2.4	1.2	0.0	0.0	0.0	0.0
85°	70.4	14.6	4.9	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	36.4	4.9	3.6	2.4	2.4	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)