

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: P484943

Luminaire Tested: **IFLD-S-SA3B-830-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484943  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

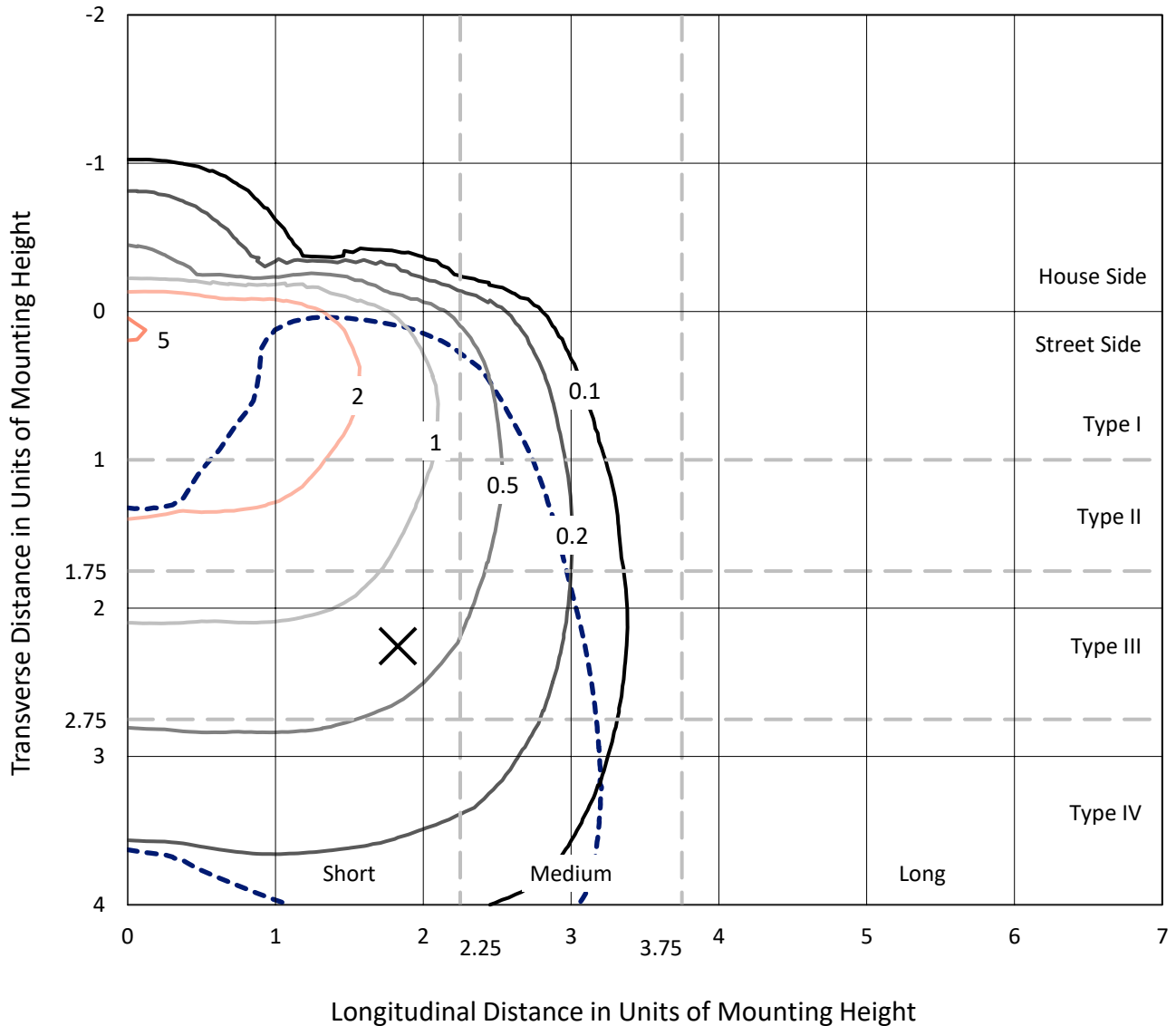
Lumens per Lamp: N/A  
Luminaire Lumens: 11169.8 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
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

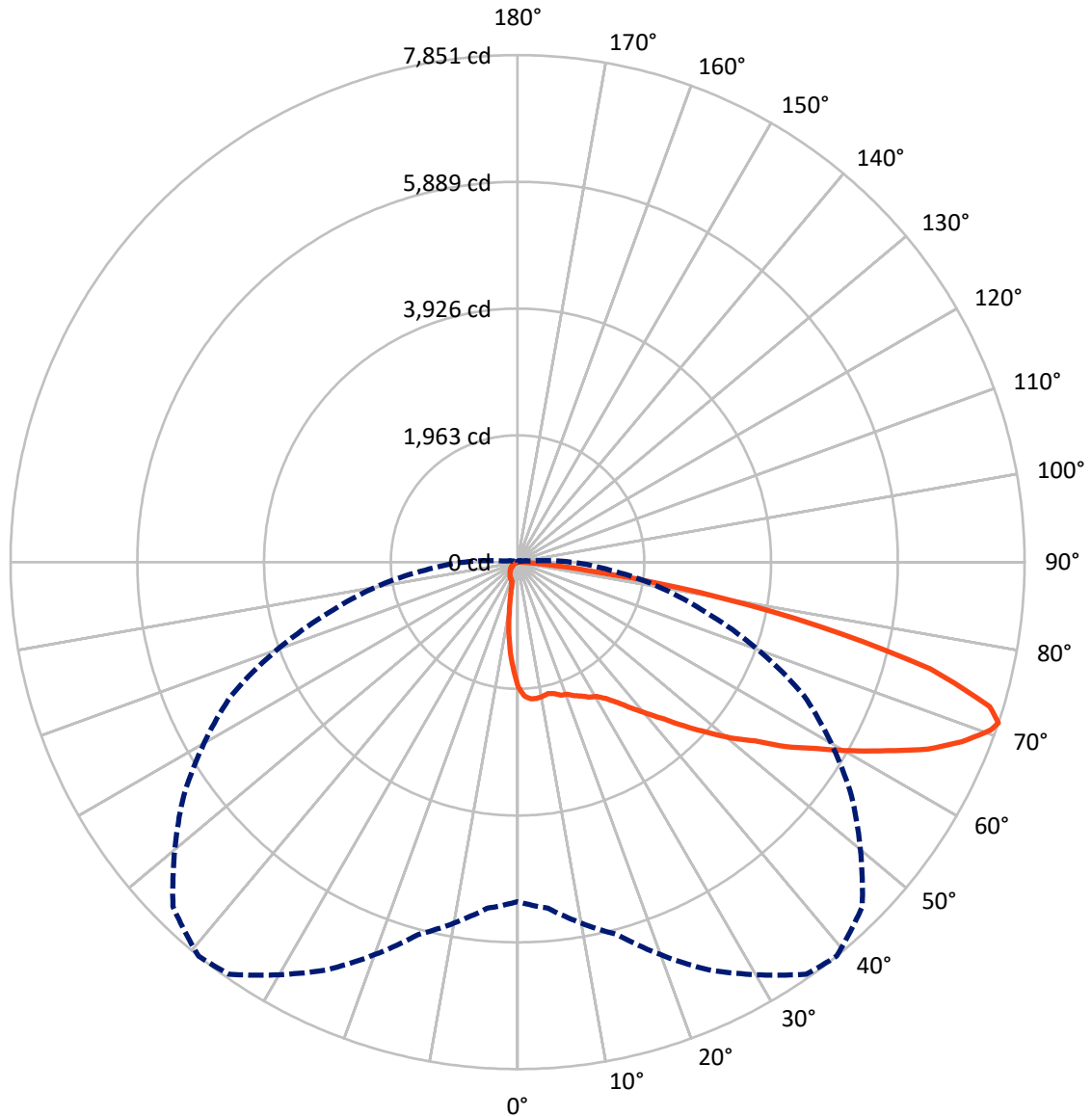
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	840.9	0.0	840.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	10328.9	0.0	10328.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	11169.8	0.0	11169.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.5	1.5
10°-20°	400.1	3.6
20°-30°	642.3	5.7
30°-40°	983.2	8.8
40°-50°	1578.1	14.1
50°-60°	2318.0	20.8
60°-70°	2919.5	26.1
70°-80°	1948.4	17.4
80°-90°	217.7	1.9
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°	11169.8	100.0
0°-180°	11169.8	100.0



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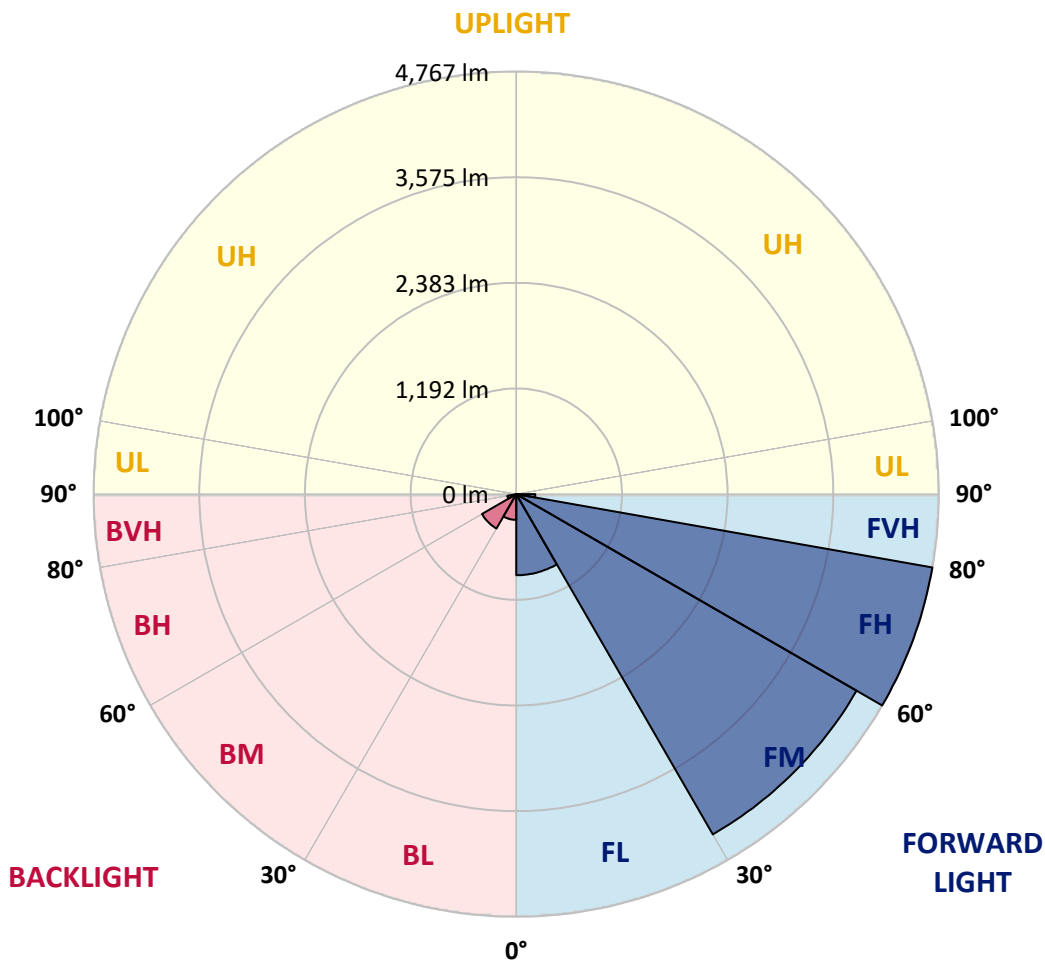
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.6	8.2			
FM (30°-60°)	4432.3	39.7			
FH (60°-80°)	4766.6	42.7			G2/5000
FVH (80°-90°)	215.3	1.9			G2/225
BL (0°-30°)	290.3	2.6	B1/500		
BM (30°-60°)	447.0	4.0	B1/1000		
BH (60°-80°)	101.2	0.9	B0/110		G0/110
BVH (80°-90°)	2.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2
2.5°	2095.1	2115.6	2095.1	2086.3	2077.5	2079.0	2055.5	2059.9	2032.1	1995.4	1966.1
5°	2161.0	2188.8	2166.9	2156.6	2155.1	2127.3	2115.6	2087.7	2054.1	1996.9	1961.8
7.5°	2155.1	2149.3	2159.5	2150.7	2131.7	2131.7	2118.5	2079.0	2045.3	1980.8	1920.7
10°	2111.2	2128.8	2120.0	2109.7	2114.1	2115.6	2090.7	2062.8	2052.6	1988.1	1890.0
12.5°	2106.8	2077.5	2109.7	2111.2	2092.1	2090.7	2087.7	2080.4	2048.2	1989.6	1897.3
15°	2092.1	2080.4	2112.7	2114.1	2118.5	2114.1	2118.5	2112.7	2080.4	2046.7	1929.5
17.5°	2103.9	2090.7	2136.1	2158.1	2147.8	2168.3	2161.0	2134.6	2106.8	2067.2	1960.3
20°	2106.8	2125.8	2175.7	2184.4	2216.7	2183.0	2181.5	2153.7	2136.1	2093.6	1979.3
22.5°	2161.0	2169.8	2231.3	2250.4	2251.8	2247.4	2210.8	2178.6	2171.3	2118.5	1983.7
25°	2243.0	2273.8	2301.7	2313.4	2317.8	2297.3	2259.2	2218.1	2200.6	2166.9	2029.1
27.5°	2388.1	2369.0	2394.0	2411.5	2361.7	2369.0	2320.7	2285.5	2260.6	2231.3	2081.9
30°	2517.0	2499.4	2500.9	2498.0	2455.5	2415.9	2402.7	2341.2	2310.4	2322.2	2163.9
32.5°	2632.8	2594.7	2626.9	2612.3	2533.1	2521.4	2511.2	2433.5	2439.4	2493.6	2287.0
35°	2739.7	2726.5	2752.9	2726.5	2673.8	2670.9	2660.6	2593.2	2625.4	2703.1	2498.0
37.5°	2837.9	2842.3	2874.5	2861.3	2865.7	2868.6	2862.8	2791.0	2883.3	3057.6	2744.1
40°	2928.7	2922.8	3002.0	3043.0	3051.8	3084.0	3084.0	3066.4	3208.5	3404.9	3085.5
42.5°	3025.4	3040.1	3142.6	3211.5	3295.0	3322.8	3360.9	3369.7	3589.5	3813.6	3434.2
45°	3183.6	3158.7	3289.1	3451.7	3525.0	3623.2	3681.8	3731.6	3996.8	4304.4	3782.9
47.5°	3384.4	3334.5	3448.8	3684.7	3854.6	3935.2	4040.7	4106.6	4366.0	4683.9	4112.5
50°	3607.0	3555.8	3611.4	3936.7	4134.5	4281.0	4415.8	4499.3	4812.8	5108.8	4352.8
52.5°	3859.0	3812.2	3820.9	4198.9	4490.5	4597.4	4774.7	4899.3	5211.3	5365.1	4437.7
55°	4127.2	4115.4	4087.6	4455.3	4802.6	5042.8	5149.8	5299.2	5620.1	5504.3	4530.0
57.5°	4396.7	4360.1	4399.7	4795.2	5303.6	5447.2	5595.2	5684.5	5847.2	5625.9	4494.9
60°	4650.2	4653.1	4708.8	5164.4	5730.0	5933.6	6066.9	6012.7	6080.1	5678.7	4414.3
62.5°	4864.1	4858.2	4998.9	5579.1	6294.0	6431.7	6531.4	6289.6	6188.5	5730.0	4273.7
65°	5056.0	5121.9	5343.2	6072.8	6824.4	6982.6	6922.5	6551.9	6294.0	5579.1	3878.1
67.5°	5201.1	5299.2	5683.1	6537.2	7310.8	7422.1	7338.6	6751.1	6169.5	4987.2	3158.7
70°	5286.0	5385.7	5926.3	6924.0	7699.0	7779.6	7583.3	6597.3	5442.8	3611.4	1970.5
71°	5259.7	5381.3	5973.2	6965.0	7791.3	7851.4	7546.7	6313.1	4894.9	3023.9	1437.3
72.5°	5020.9	5135.1	5778.3	6935.7	7680.0	7643.4	7261.0	5630.3	3853.2	1928.1	742.8
75°	3689.1	3812.2	4959.3	5999.5	6855.1	6603.1	5876.5	3951.3	2010.1	590.4	216.8
77.5°	1837.2	1857.7	3078.1	4355.7	5028.2	4777.6	3938.2	2203.5	751.6	174.3	108.4
80°	846.8	852.7	1154.5	2256.2	3040.1	2861.3	2206.4	1087.1	339.9	92.3	85.0
82.5°	577.2	586.0	695.9	934.7	1320.0	1113.5	893.7	695.9	194.9	55.7	83.5
85°	105.5	96.7	389.7	495.2	509.9	345.8	309.1	602.2	73.3	32.2	73.3
87.5°	0.0	1.5	54.2	202.2	181.7	80.6	105.5	146.5	7.3	10.3	13.2
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°	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2
2.5°	1941.2	1925.1	1870.9	1810.8	1756.6	1714.2	1659.9	1635.0	1595.5	1573.5	1572.0
5°	1913.4	1869.5	1775.7	1674.6	1561.8	1468.0	1364.0	1305.4	1238.0	1217.5	1213.1
7.5°	1866.5	1803.5	1665.8	1523.7	1350.8	1185.3	1057.8	921.5	838.0	802.9	789.7
10°	1837.2	1761.0	1573.5	1361.1	1119.3	886.4	707.6	562.6	486.4	449.8	441.0
12.5°	1837.2	1755.2	1498.8	1205.8	884.9	606.5	438.1	354.6	329.6	320.9	320.9
15°	1832.8	1743.5	1427.0	1046.1	654.9	407.3	326.7	309.1	306.2	304.7	303.3
17.5°	1854.8	1722.9	1353.7	874.7	463.0	320.9	300.3	297.4	294.5	294.5	291.6
20°	1870.9	1711.2	1265.8	693.0	345.8	297.4	288.6	284.2	282.8	281.3	284.2
22.5°	1857.7	1693.6	1157.4	518.6	301.8	282.8	276.9	272.5	269.6	269.6	271.0
25°	1882.6	1677.5	1049.0	391.2	282.8	269.6	263.7	260.8	259.3	257.9	254.9
27.5°	1916.3	1684.9	920.1	315.0	266.6	256.4	250.5	247.6	246.1	243.2	246.1
30°	1957.4	1683.4	778.0	275.4	252.0	241.7	235.9	234.4	231.5	230.0	231.5
32.5°	2027.7	1721.5	631.5	254.9	235.9	227.1	221.2	219.8	218.3	216.8	215.4
35°	2178.6	1768.4	493.7	238.8	221.2	211.0	206.6	203.6	202.2	200.7	199.3
37.5°	2364.7	1872.4	376.5	224.2	206.6	196.3	191.9	190.5	184.6	183.1	181.7
40°	2597.6	1983.7	290.1	208.0	193.4	183.1	178.7	174.3	167.0	164.1	161.2
42.5°	2887.7	2092.1	238.8	193.4	178.7	171.4	164.1	156.8	150.9	145.0	142.1
45°	3177.8	2218.1	209.5	180.2	167.0	158.2	152.4	142.1	131.9	123.1	121.6
47.5°	3419.5	2263.6	191.9	165.6	155.3	148.0	139.2	126.0	111.3	102.6	101.1
50°	3599.7	2237.2	174.3	150.9	142.1	134.8	123.1	107.0	92.3	83.5	80.6
52.5°	3634.9	2121.4	158.2	139.2	128.9	120.1	107.0	89.4	73.3	64.5	63.0
55°	3610.0	1929.5	145.0	128.9	117.2	104.0	89.4	71.8	57.1	48.3	46.9
57.5°	3558.7	1702.4	130.4	115.7	102.6	89.4	73.3	58.6	42.5	33.7	33.7
60°	3384.4	1393.3	115.7	101.1	87.9	76.2	60.1	42.5	29.3	22.0	20.5
62.5°	3141.1	1071.0	101.1	86.4	76.2	63.0	46.9	30.8	17.6	11.7	11.7
65°	2697.2	750.1	85.0	71.8	63.0	51.3	35.2	19.0	10.3	4.4	4.4
67.5°	2049.7	464.4	70.3	60.1	54.2	41.0	24.9	11.7	4.4	1.5	0.0
70°	1176.5	241.7	55.7	48.3	42.5	30.8	17.6	5.9	2.9	0.0	0.0
71°	821.9	178.7	49.8	42.5	38.1	27.8	14.7	4.4	1.5	0.0	0.0
72.5°	411.7	118.7	42.5	35.2	30.8	22.0	11.7	4.4	1.5	0.0	0.0
75°	146.5	76.2	29.3	23.4	22.0	16.1	7.3	2.9	1.5	0.0	0.0
77.5°	101.1	61.5	20.5	14.7	14.7	10.3	4.4	1.5	1.5	0.0	0.0
80°	92.3	33.7	13.2	8.8	7.3	5.9	2.9	1.5	0.0	0.0	0.0
82.5°	92.3	24.9	7.3	5.9	4.4	2.9	1.5	0.0	0.0	0.0	0.0
85°	64.5	13.2	4.4	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	4.4	2.9	1.5	1.5	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)