

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: P484667

Luminaire Tested: **IFLD-S-SA2D-727-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484667  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

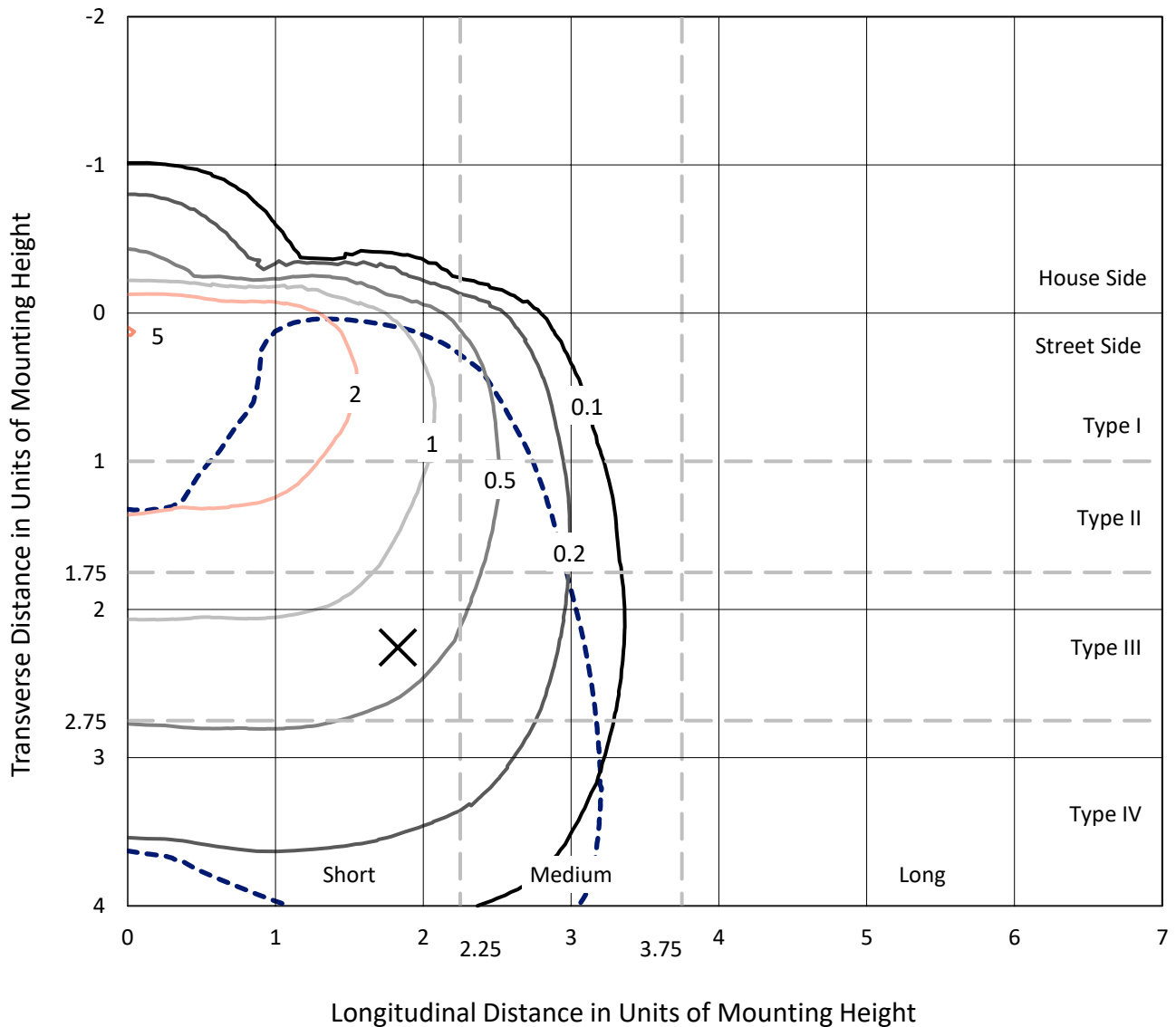
Lumens per Lamp: N/A  
Luminaire Lumens: 10805.1 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

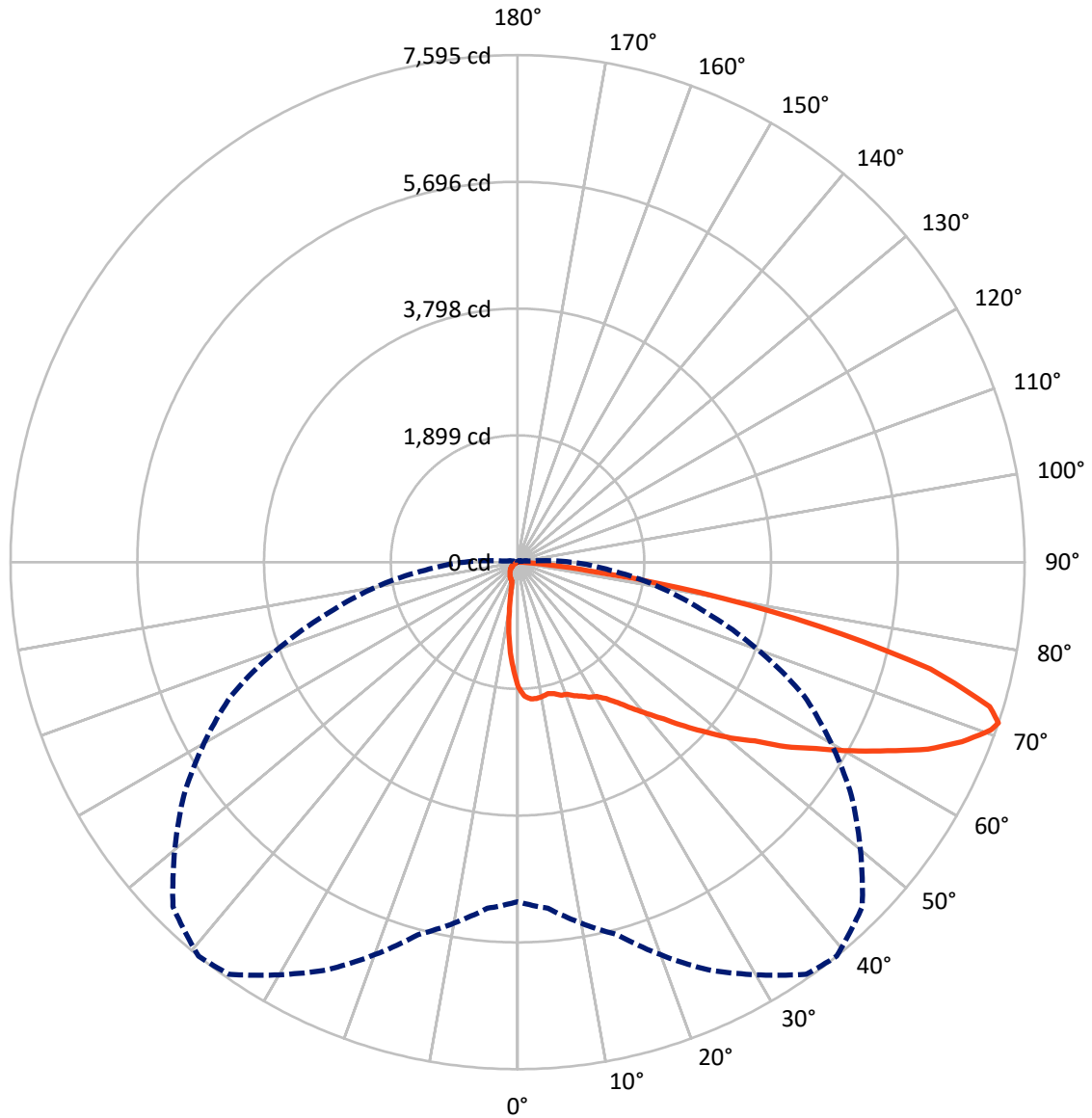
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	813.5	0.0	813.5
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	9991.6	0.0	9991.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	10805.1	0.0	10805.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.2	1.5
10°-20°	387.0	3.6
20°-30°	621.3	5.7
30°-40°	951.1	8.8
40°-50°	1526.6	14.1
50°-60°	2242.3	20.8
60°-70°	2824.1	26.1
70°-80°	1884.8	17.4
80°-90°	210.6	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°	10805.1	100.0
0°-180°	10805.1	100.0

**Coefficient of Utilization**



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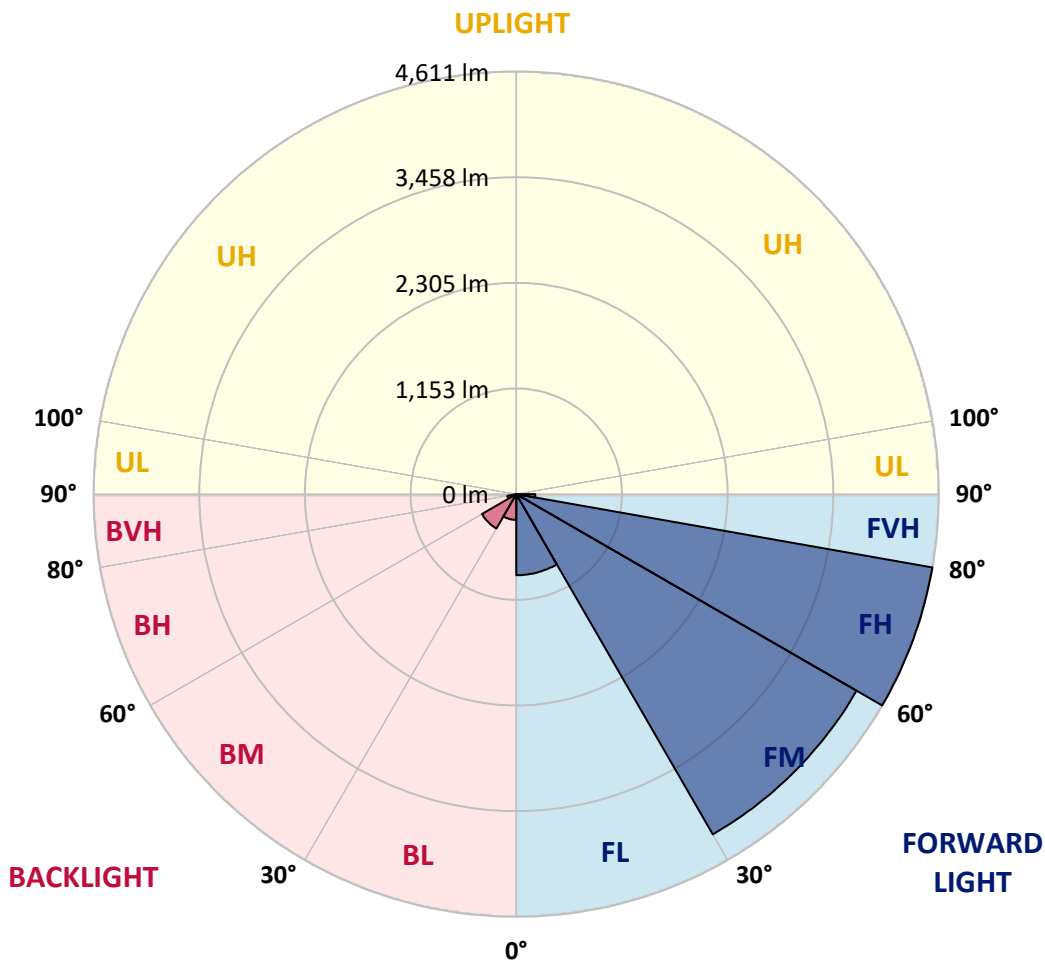
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.7	8.2			
FM (30°-60°)	4287.6	39.7			
FH (60°-80°)	4611.0	42.7			G2/5000
FVH (80°-90°)	208.3	1.9			G2/225
BL (0°-30°)	280.8	2.6	B1/500		
BM (30°-60°)	432.4	4.0	B1/1000		
BH (60°-80°)	97.9	0.9	B0/110		G0/110
BVH (80°-90°)	2.3	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°	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7
2.5°	2026.7	2046.5	2026.7	2018.2	2009.7	2011.1	1988.4	1992.7	1965.7	1930.3	1901.9
5°	2090.4	2117.4	2096.1	2086.2	2084.8	2057.8	2046.5	2019.6	1987.0	1931.7	1897.7
7.5°	2084.8	2079.1	2089.0	2080.5	2062.1	2062.1	2049.3	2011.1	1978.5	1916.1	1858.0
10°	2042.3	2059.3	2050.8	2040.8	2045.1	2046.5	2022.4	1995.5	1985.6	1923.2	1828.3
12.5°	2038.0	2009.7	2040.8	2042.3	2023.8	2022.4	2019.6	2012.5	1981.3	1924.6	1835.3
15°	2023.8	2012.5	2043.7	2045.1	2049.3	2045.1	2049.3	2043.7	2012.5	1979.9	1866.5
17.5°	2035.2	2022.4	2066.4	2087.6	2077.7	2097.5	2090.4	2064.9	2038.0	1999.7	1896.3
20°	2038.0	2056.4	2104.6	2113.1	2144.3	2111.7	2110.3	2083.4	2066.4	2025.3	1914.7
22.5°	2090.4	2098.9	2158.5	2176.9	2178.3	2174.1	2138.6	2107.5	2100.4	2049.3	1919.0
25°	2169.8	2199.6	2226.5	2237.8	2242.1	2222.2	2185.4	2145.7	2128.7	2096.1	1962.9
27.5°	2310.1	2291.7	2315.8	2332.8	2284.6	2291.7	2244.9	2210.9	2186.8	2158.5	2013.9
30°	2434.8	2417.8	2419.2	2416.4	2375.3	2337.0	2324.3	2264.8	2235.0	2246.3	2093.3
32.5°	2546.8	2509.9	2541.1	2527.0	2450.4	2439.1	2429.2	2354.1	2359.7	2412.2	2212.3
35°	2650.3	2637.5	2663.0	2637.5	2586.5	2583.6	2573.7	2508.5	2539.7	2614.8	2416.4
37.5°	2745.2	2749.5	2780.6	2767.9	2772.1	2775.0	2769.3	2699.9	2789.1	2957.8	2654.5
40°	2833.1	2827.4	2903.9	2943.6	2952.1	2983.3	2983.3	2966.3	3103.8	3293.7	2984.7
42.5°	2926.6	2940.8	3040.0	3106.6	3187.4	3214.3	3251.2	3259.7	3472.3	3689.1	3322.0
45°	3079.7	3055.6	3181.7	3339.0	3409.9	3504.9	3561.5	3609.7	3866.3	4163.9	3659.3
47.5°	3273.8	3225.7	3336.2	3564.4	3728.8	3806.7	3908.8	3972.6	4223.4	4530.9	3978.2
50°	3489.3	3439.7	3493.5	3808.2	3999.5	4141.2	4271.6	4352.4	4655.7	4942.0	4210.6
52.5°	3733.0	3687.7	3696.2	4061.8	4343.9	4447.3	4618.8	4739.3	5041.2	5190.0	4292.9
55°	3992.4	3981.1	3954.1	4309.9	4645.7	4878.2	4981.6	5126.2	5436.6	5324.6	4382.1
57.5°	4253.2	4217.7	4256.0	4638.7	5130.4	5269.3	5412.5	5498.9	5656.2	5442.2	4348.1
60°	4498.4	4501.2	4555.0	4995.8	5542.9	5739.9	5868.8	5816.4	5881.6	5493.3	4270.2
62.5°	4705.3	4699.6	4835.7	5396.9	6088.5	6221.7	6318.1	6084.3	5986.5	5542.9	4134.1
65°	4890.9	4954.7	5168.7	5874.5	6601.6	6754.6	6696.5	6337.9	6088.5	5396.9	3751.5
67.5°	5031.2	5126.2	5497.5	6323.8	7072.1	7179.8	7099.0	6530.7	5968.0	4824.3	3055.6
70°	5113.4	5209.8	5732.8	6697.9	7447.6	7525.6	7335.7	6381.9	5265.1	3493.5	1906.2
71°	5087.9	5205.6	5778.1	6737.6	7536.9	7595.0	7300.3	6106.9	4735.0	2925.2	1390.3
72.5°	4856.9	4967.5	5589.6	6709.3	7429.2	7393.8	7023.9	5446.5	3727.4	1865.1	718.5
75°	3568.6	3687.7	4797.4	5803.6	6631.3	6387.5	5684.6	3822.3	1944.5	571.2	209.8
77.5°	1777.2	1797.1	2977.6	4213.5	4864.0	4621.7	3809.6	2131.5	727.0	168.7	104.9
80°	819.2	824.8	1116.8	2182.6	2940.8	2767.9	2134.4	1051.6	328.8	89.3	82.2
82.5°	558.4	566.9	673.2	904.2	1276.9	1077.1	864.5	673.2	188.5	53.9	80.8
85°	102.0	93.5	377.0	479.0	493.2	334.5	299.0	582.5	70.9	31.2	70.9
87.5°	0.0	1.4	52.4	195.6	175.7	77.9	102.0	141.7	7.1	9.9	12.8
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°	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7
2.5°	1877.9	1862.3	1809.8	1751.7	1699.3	1658.2	1605.7	1581.7	1543.4	1522.1	1520.7
5°	1850.9	1808.4	1717.7	1619.9	1510.8	1420.1	1319.5	1262.8	1197.6	1177.7	1173.5
7.5°	1805.6	1744.6	1611.4	1473.9	1306.7	1146.6	1023.3	891.5	810.7	776.7	763.9
10°	1777.2	1703.5	1522.1	1316.6	1082.8	857.4	684.5	544.2	470.5	435.1	426.6
12.5°	1777.2	1697.9	1449.8	1166.4	856.0	586.7	423.8	343.0	318.9	310.4	310.4
15°	1773.0	1686.5	1380.4	1011.9	633.5	394.0	316.0	299.0	296.2	294.8	293.4
17.5°	1794.2	1666.7	1309.5	846.1	447.9	310.4	290.5	287.7	284.9	284.9	282.0
20°	1809.8	1655.3	1224.5	670.4	334.5	287.7	279.2	274.9	273.5	272.1	274.9
22.5°	1797.1	1638.3	1119.6	501.7	292.0	273.5	267.9	263.6	260.8	260.8	262.2
25°	1821.2	1622.8	1014.8	378.4	273.5	260.8	255.1	252.3	250.9	249.4	246.6
27.5°	1853.8	1629.8	890.0	304.7	257.9	248.0	242.3	239.5	238.1	235.3	238.1
30°	1893.4	1628.4	752.6	266.4	243.8	233.8	228.2	226.8	223.9	222.5	223.9
32.5°	1961.5	1665.3	610.8	246.6	228.2	219.7	214.0	212.6	211.2	209.8	208.3
35°	2107.5	1710.6	477.6	231.0	214.0	204.1	199.8	197.0	195.6	194.2	192.7
37.5°	2287.4	1811.2	364.2	216.8	199.8	189.9	185.7	184.2	178.6	177.2	175.7
40°	2512.8	1919.0	280.6	201.2	187.1	177.2	172.9	168.7	161.6	158.7	155.9
42.5°	2793.4	2023.8	231.0	187.1	172.9	165.8	158.7	151.6	146.0	140.3	137.5
45°	3074.0	2145.7	202.7	174.3	161.6	153.1	147.4	137.5	127.6	119.0	117.6
47.5°	3307.9	2189.7	185.7	160.1	150.2	143.1	134.6	121.9	107.7	99.2	97.8
50°	3482.2	2164.1	168.7	146.0	137.5	130.4	119.0	103.5	89.3	80.8	77.9
52.5°	3516.2	2052.2	153.1	134.6	124.7	116.2	103.5	86.5	70.9	62.4	60.9
55°	3492.1	1866.5	140.3	124.7	113.4	100.6	86.5	69.4	55.3	46.8	45.4
57.5°	3442.5	1646.8	126.1	112.0	99.2	86.5	70.9	56.7	41.1	32.6	32.6
60°	3273.8	1347.8	112.0	97.8	85.0	73.7	58.1	41.1	28.3	21.3	19.8
62.5°	3038.6	1036.0	97.8	83.6	73.7	60.9	45.4	29.8	17.0	11.3	11.3
65°	2609.2	725.6	82.2	69.4	60.9	49.6	34.0	18.4	9.9	4.3	4.3
67.5°	1982.7	449.3	68.0	58.1	52.4	39.7	24.1	11.3	4.3	1.4	0.0
70°	1138.1	233.8	53.9	46.8	41.1	29.8	17.0	5.7	2.8	0.0	0.0
71°	795.1	172.9	48.2	41.1	36.8	26.9	14.2	4.3	1.4	0.0	0.0
72.5°	398.2	114.8	41.1	34.0	29.8	21.3	11.3	4.3	1.4	0.0	0.0
75°	141.7	73.7	28.3	22.7	21.3	15.6	7.1	2.8	1.4	0.0	0.0
77.5°	97.8	59.5	19.8	14.2	14.2	9.9	4.3	1.4	1.4	0.0	0.0
80°	89.3	32.6	12.8	8.5	7.1	5.7	2.8	1.4	0.0	0.0	0.0
82.5°	89.3	24.1	7.1	5.7	4.3	2.8	1.4	0.0	0.0	0.0	0.0
85°	62.4	12.8	4.3	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	4.3	2.8	1.4	1.4	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)