

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: P484923

Luminaire Tested: **IFLD-M-SA4A-827-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484923  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-827-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

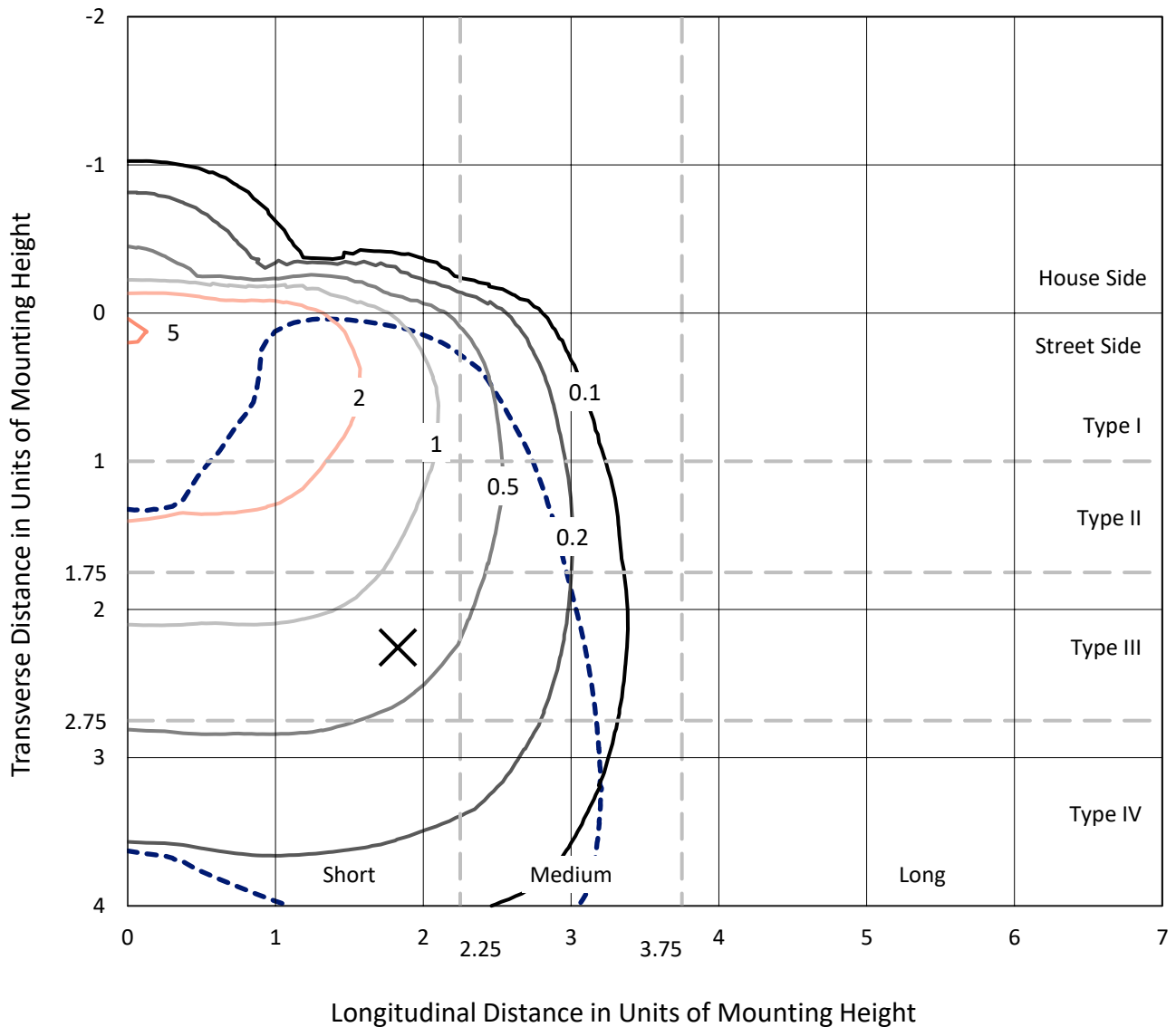
Lumens per Lamp: N/A  
Luminaire Lumens: 11214.8 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6  
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

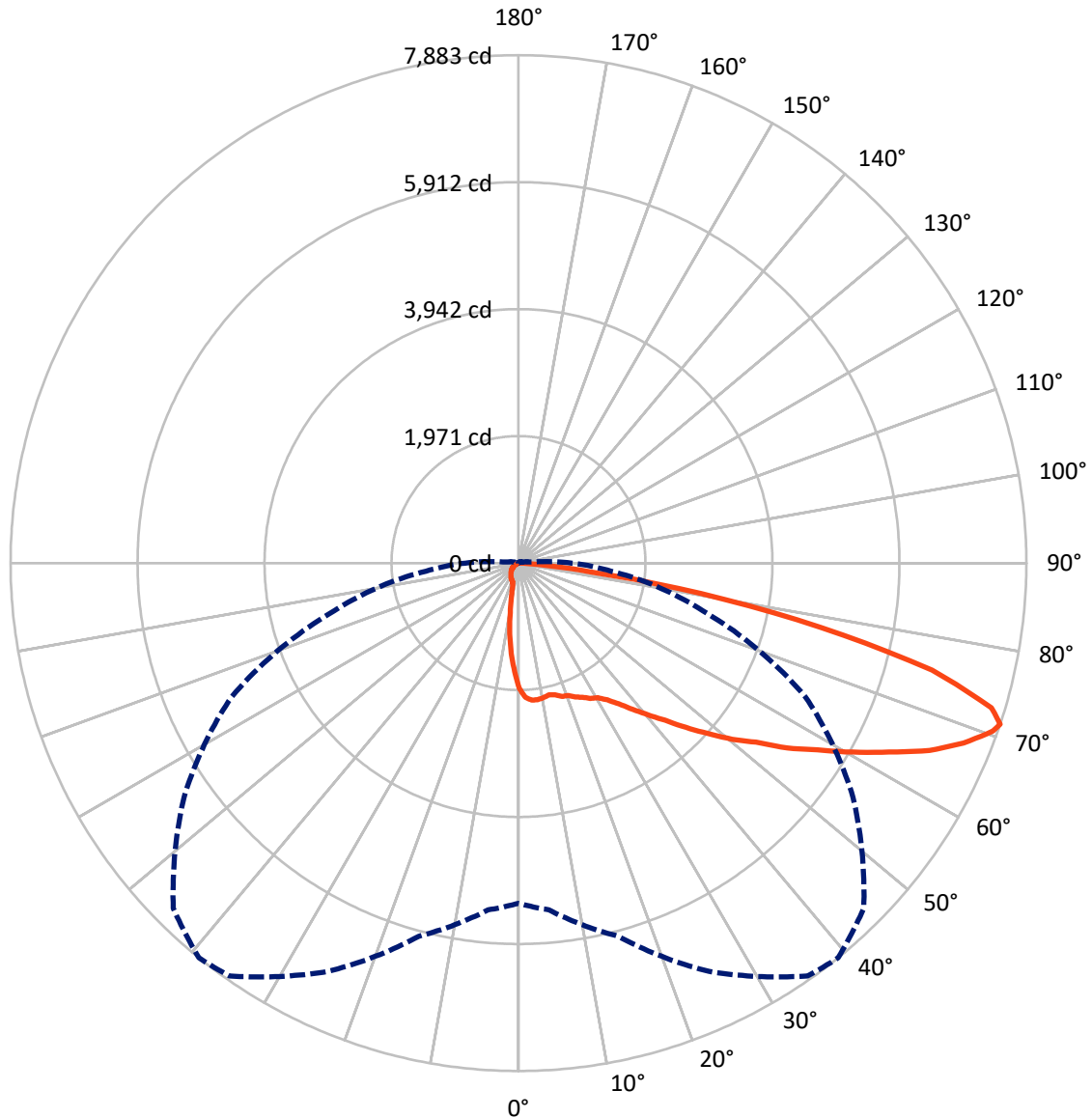
× Max cd  
 - - - 1/2 Max cd



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	844.3	0.0	844.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	10370.5	0.0	10370.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	11214.8	0.0	11214.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.2	1.5
10°-20°	401.7	3.6
20°-30°	644.9	5.8
30°-40°	987.1	8.8
40°-50°	1584.5	14.1
50°-60°	2327.4	20.8
60°-70°	2931.2	26.1
70°-80°	1956.2	17.4
80°-90°	218.6	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°	11214.8	100.0
0°-180°	11214.8	100.0

**Coefficient of Utilization**



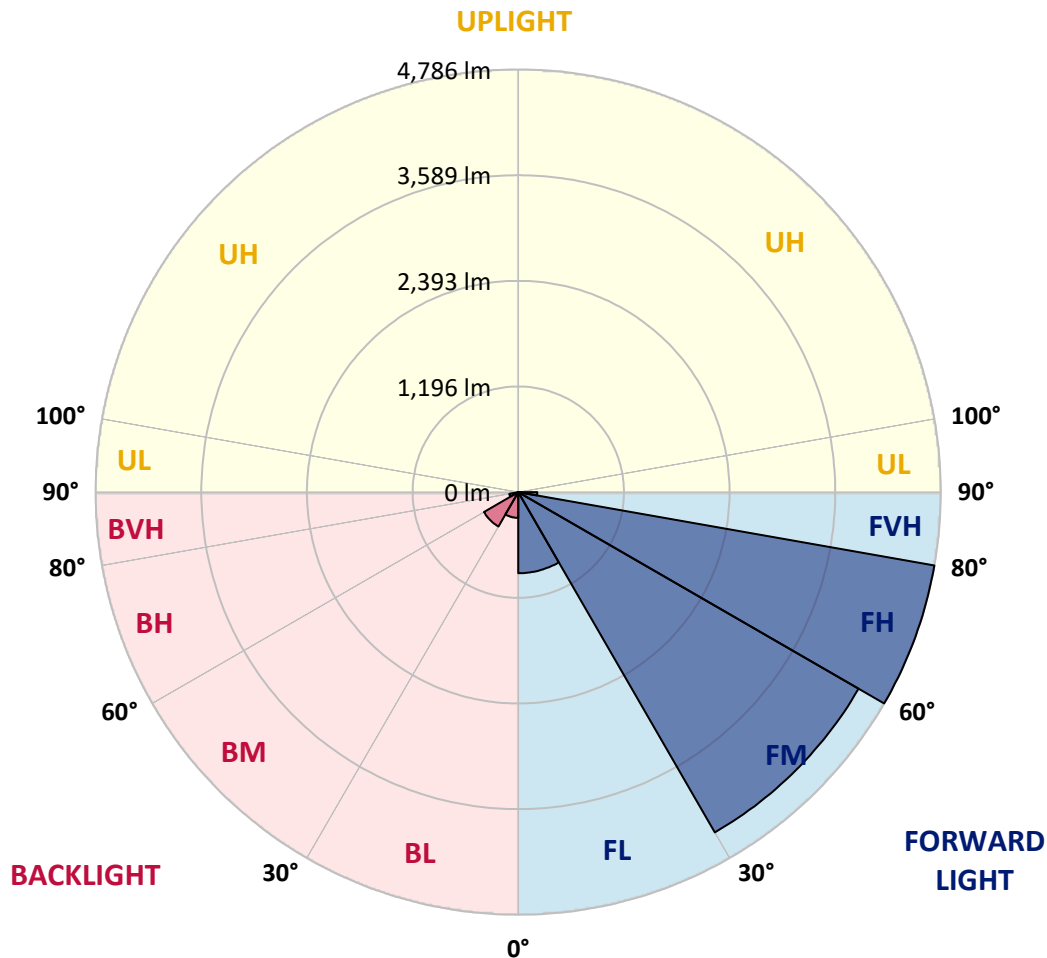
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.3	8.2			
FM (30°-60°)	4450.2	39.7			
FH (60°-80°)	4785.9	42.7			G2/5000
FVH (80°-90°)	216.2	1.9			G2/225
BL (0°-30°)	291.5	2.6	B1/500		
BM (30°-60°)	448.8	4.0	B1/1000		
BH (60°-80°)	101.6	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°	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0
2.5°	2103.5	2124.1	2103.5	2094.7	2085.9	2087.3	2063.8	2068.2	2040.3	2003.5	1974.1
5°	2169.7	2197.7	2175.6	2165.3	2163.8	2135.9	2124.1	2096.2	2062.3	2005.0	1969.7
7.5°	2163.8	2158.0	2168.3	2159.4	2140.3	2140.3	2127.1	2087.3	2053.5	1988.8	1928.5
10°	2119.7	2137.4	2128.5	2118.2	2122.7	2124.1	2099.1	2071.2	2060.9	1996.1	1897.6
12.5°	2115.3	2085.9	2118.2	2119.7	2100.6	2099.1	2096.2	2088.8	2056.5	1997.6	1904.9
15°	2100.6	2088.8	2121.2	2122.7	2127.1	2122.7	2127.1	2121.2	2088.8	2055.0	1937.3
17.5°	2112.4	2099.1	2144.7	2166.8	2156.5	2177.1	2169.7	2143.2	2115.3	2075.6	1968.2
20°	2115.3	2134.4	2184.4	2193.3	2225.6	2191.8	2190.3	2162.4	2144.7	2102.1	1987.3
22.5°	2169.7	2178.5	2240.3	2259.5	2260.9	2256.5	2219.7	2187.4	2180.0	2127.1	1991.7
25°	2252.1	2283.0	2310.9	2322.7	2327.1	2306.5	2268.3	2227.1	2209.4	2175.6	2037.3
27.5°	2397.7	2378.6	2403.6	2421.3	2371.2	2378.6	2330.1	2294.8	2269.8	2240.3	2090.3
30°	2527.2	2509.5	2511.0	2508.1	2465.4	2425.7	2412.4	2350.7	2319.8	2331.5	2172.7
32.5°	2643.4	2605.1	2637.5	2622.8	2543.4	2531.6	2521.3	2443.3	2449.2	2503.6	2296.2
35°	2750.8	2737.5	2764.0	2737.5	2684.6	2681.6	2671.3	2603.7	2636.0	2714.0	2508.1
37.5°	2849.3	2853.7	2886.1	2872.9	2877.3	2880.2	2874.3	2802.3	2894.9	3070.0	2755.2
40°	2940.5	2934.6	3014.1	3055.3	3064.1	3096.5	3096.5	3078.8	3221.5	3418.6	3097.9
42.5°	3037.6	3052.3	3155.3	3224.4	3308.3	3336.2	3374.5	3383.3	3603.9	3829.0	3448.0
45°	3196.5	3171.5	3302.4	3465.7	3539.2	3637.8	3696.6	3746.6	4012.9	4321.8	3798.1
47.5°	3398.0	3348.0	3462.7	3699.6	3870.2	3951.1	4057.0	4123.2	4383.6	4702.8	4129.1
50°	3621.6	3570.1	3626.0	3952.6	4151.2	4298.3	4433.6	4517.4	4832.2	5129.4	4370.3
52.5°	3874.6	3827.5	3836.4	4215.9	4508.6	4616.0	4794.0	4919.0	5232.3	5386.8	4455.7
55°	4143.8	4132.0	4104.1	4473.3	4821.9	5063.2	5170.6	5320.6	5642.8	5526.5	4548.3
57.5°	4414.5	4377.7	4417.4	4814.6	5325.0	5469.2	5617.7	5707.5	5870.8	5648.6	4513.0
60°	4668.9	4671.9	4727.8	5185.3	5753.1	5957.5	6091.4	6037.0	6104.6	5701.6	4432.1
62.5°	4883.7	4877.8	5019.0	5601.6	6319.4	6457.7	6557.7	6315.0	6213.5	5753.1	4290.9
65°	5076.4	5142.6	5364.7	6097.3	6851.9	7010.8	6950.5	6578.3	6319.4	5601.6	3893.7
67.5°	5222.0	5320.6	5706.0	6563.6	7340.3	7452.1	7368.2	6778.4	6194.4	5007.3	3171.5
70°	5307.4	5407.4	5950.2	6951.9	7730.1	7811.0	7613.9	6623.9	5464.8	3626.0	1978.5
71°	5280.9	5403.0	5997.3	6993.1	7822.8	7883.1	7577.1	6338.5	4914.6	3036.1	1443.0
72.5°	5041.1	5155.8	5801.6	6963.7	7711.0	7674.2	7290.3	5653.0	3868.7	1935.8	745.8
75°	3704.0	3827.5	4979.3	6023.7	6882.8	6629.8	5900.2	3967.3	2018.2	592.8	217.7
77.5°	1844.6	1865.2	3090.6	4373.3	5048.5	4796.9	3954.0	2212.4	754.6	175.0	108.9
80°	850.2	856.1	1159.1	2265.3	3052.3	2872.9	2215.3	1091.5	341.3	92.7	85.3
82.5°	579.6	588.4	698.7	938.5	1325.4	1118.0	897.3	698.7	195.6	55.9	83.8
85°	105.9	97.1	391.3	497.2	511.9	347.2	310.4	604.6	73.5	32.4	73.5
87.5°	0.0	1.5	54.4	203.0	182.4	80.9	105.9	147.1	7.4	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°	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0
2.5°	1949.1	1932.9	1878.5	1818.2	1763.7	1721.1	1666.6	1641.6	1601.9	1579.9	1578.4
5°	1921.1	1877.0	1782.9	1681.4	1568.1	1473.9	1369.5	1310.7	1243.0	1222.4	1218.0
7.5°	1874.1	1810.8	1672.5	1529.8	1356.3	1190.0	1062.1	925.3	841.4	806.1	792.9
10°	1844.6	1768.1	1579.9	1366.6	1123.8	890.0	710.5	564.9	488.4	451.6	442.8
12.5°	1844.6	1762.3	1504.8	1210.6	888.5	609.0	439.8	356.0	331.0	322.1	322.1
15°	1840.2	1750.5	1432.8	1050.3	657.5	408.9	328.0	310.4	307.4	306.0	304.5
17.5°	1862.3	1729.9	1359.2	878.2	464.8	322.1	301.6	298.6	295.7	295.7	292.7
20°	1878.5	1718.1	1270.9	695.8	347.2	298.6	289.8	285.4	283.9	282.4	285.4
22.5°	1865.2	1700.5	1162.1	520.7	303.0	283.9	278.0	273.6	270.7	270.7	272.1
25°	1890.2	1684.3	1053.2	392.8	283.9	270.7	264.8	261.8	260.4	258.9	256.0
27.5°	1924.1	1691.6	923.8	316.3	267.7	257.4	251.5	248.6	247.1	244.2	247.1
30°	1965.3	1690.2	781.1	276.5	253.0	242.7	236.8	235.4	232.4	230.9	232.4
32.5°	2035.9	1728.4	634.0	256.0	236.8	228.0	222.1	220.6	219.2	217.7	216.2
35°	2187.4	1775.5	495.7	239.8	222.1	211.8	207.4	204.5	203.0	201.5	200.1
37.5°	2374.2	1879.9	378.0	225.1	207.4	197.1	192.7	191.2	185.3	183.9	182.4
40°	2608.1	1991.7	291.3	208.9	194.2	183.9	179.5	175.0	167.7	164.8	161.8
42.5°	2899.3	2100.6	239.8	194.2	179.5	172.1	164.8	157.4	151.5	145.6	142.7
45°	3190.6	2227.1	210.4	180.9	167.7	158.9	153.0	142.7	132.4	123.6	122.1
47.5°	3433.3	2272.7	192.7	166.2	155.9	148.6	139.7	126.5	111.8	103.0	101.5
50°	3614.2	2246.2	175.0	151.5	142.7	135.3	123.6	107.4	92.7	83.8	80.9
52.5°	3649.5	2130.0	158.9	139.7	129.4	120.6	107.4	89.7	73.5	64.7	63.3
55°	3624.5	1937.3	145.6	129.4	117.7	104.4	89.7	72.1	57.4	48.5	47.1
57.5°	3573.1	1709.3	130.9	116.2	103.0	89.7	73.5	58.8	42.7	33.8	33.8
60°	3398.0	1398.9	116.2	101.5	88.3	76.5	60.3	42.7	29.4	22.1	20.6
62.5°	3153.8	1075.3	101.5	86.8	76.5	63.3	47.1	30.9	17.7	11.8	11.8
65°	2708.1	753.2	85.3	72.1	63.3	51.5	35.3	19.1	10.3	4.4	4.4
67.5°	2057.9	466.3	70.6	60.3	54.4	41.2	25.0	11.8	4.4	1.5	0.0
70°	1181.2	242.7	55.9	48.5	42.7	30.9	17.7	5.9	2.9	0.0	0.0
71°	825.2	179.5	50.0	42.7	38.2	27.9	14.7	4.4	1.5	0.0	0.0
72.5°	413.4	119.2	42.7	35.3	30.9	22.1	11.8	4.4	1.5	0.0	0.0
75°	147.1	76.5	29.4	23.5	22.1	16.2	7.4	2.9	1.5	0.0	0.0
77.5°	101.5	61.8	20.6	14.7	14.7	10.3	4.4	1.5	1.5	0.0	0.0
80°	92.7	33.8	13.2	8.8	7.4	5.9	2.9	1.5	0.0	0.0	0.0
82.5°	92.7	25.0	7.4	5.9	4.4	2.9	1.5	0.0	0.0	0.0	0.0
85°	64.7	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)