

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: P484650

Luminaire Tested: **IFLD-M-SA4A-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484650
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

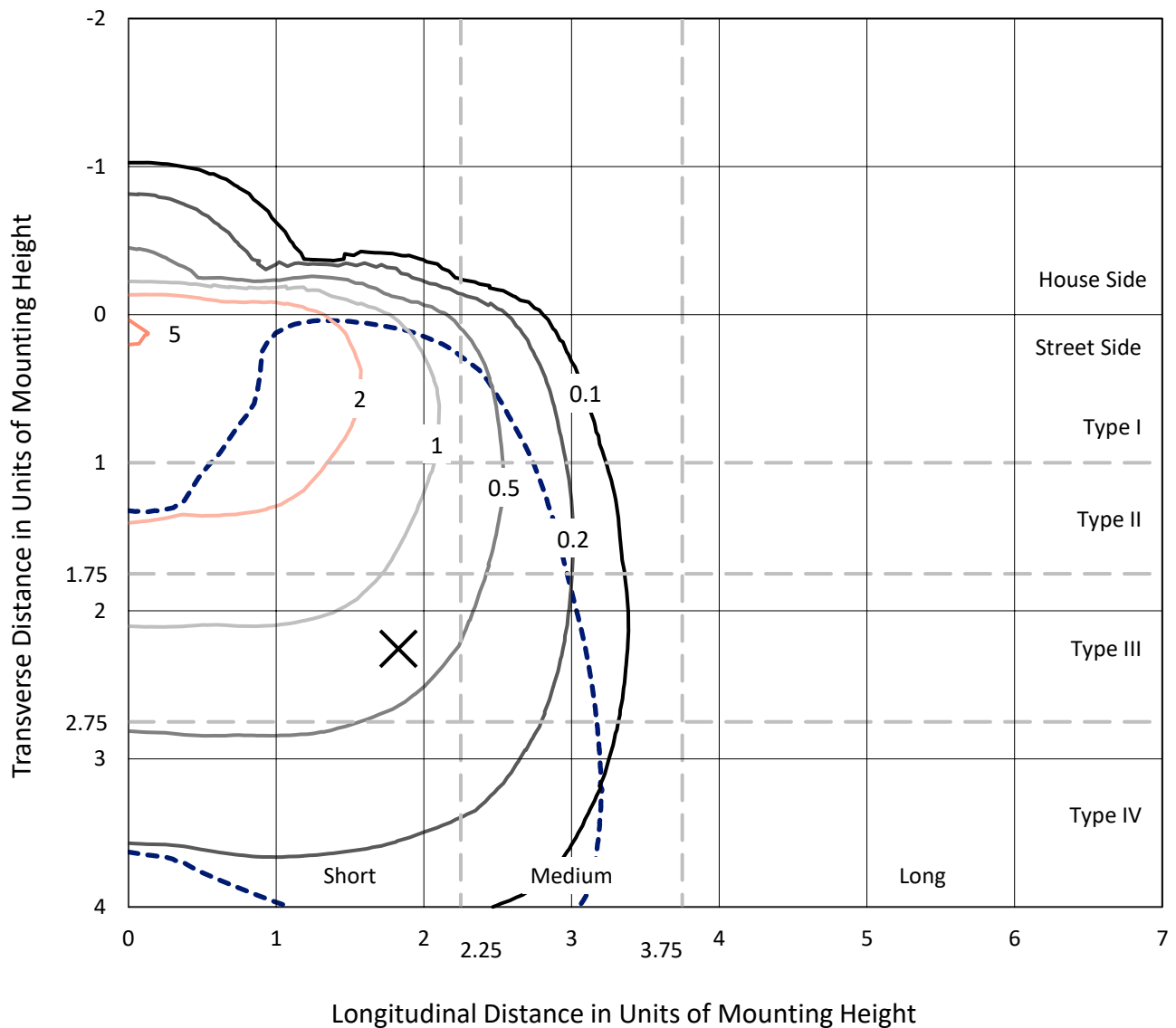
Lumens per Lamp: N/A
Luminaire Lumens: 11237.7 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

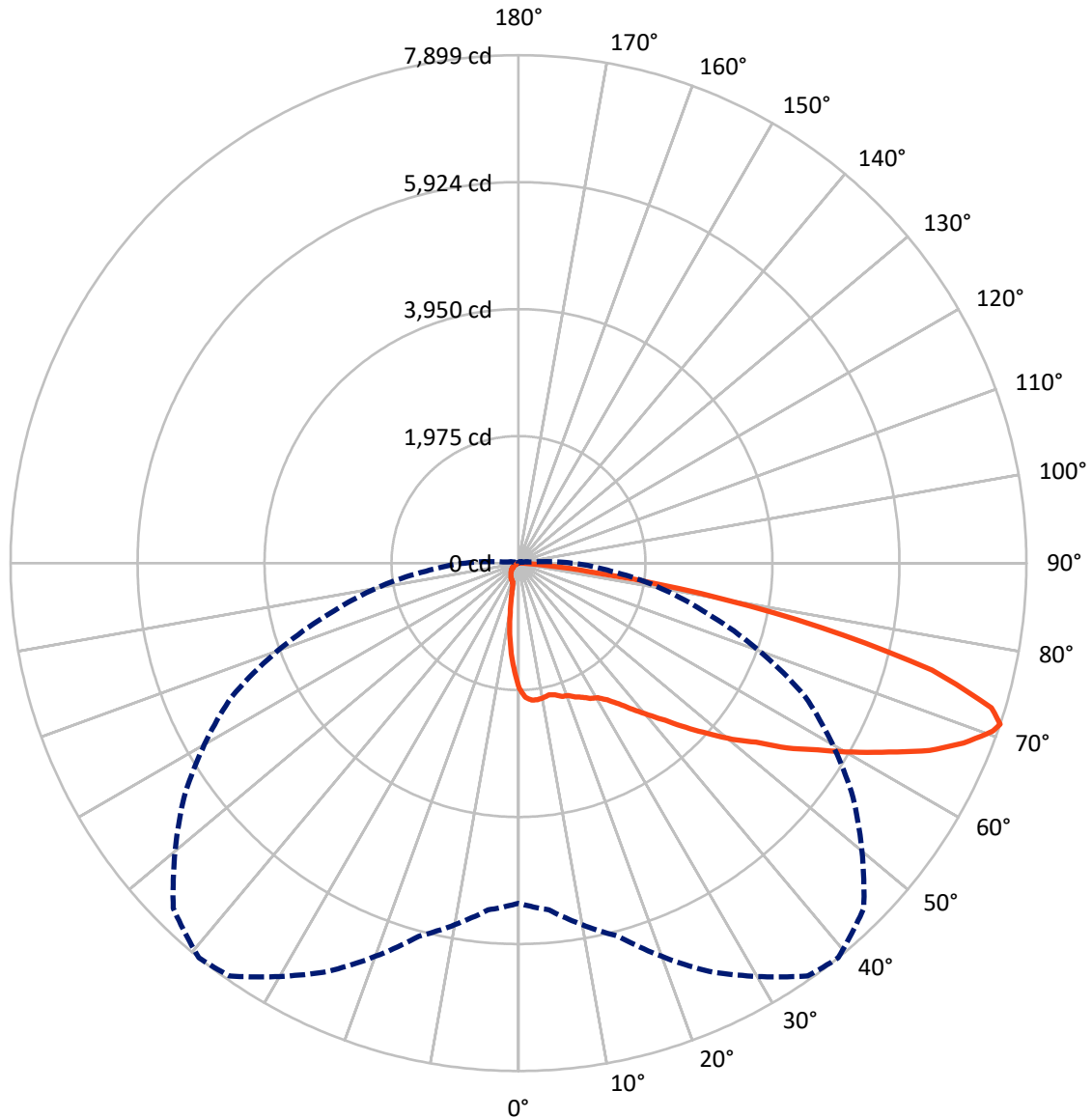
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	846.0	0.0	846.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10391.7	0.0	10391.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	11237.7	0.0	11237.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.5
10°-20°	402.5	3.6
20°-30°	646.2	5.8
30°-40°	989.1	8.8
40°-50°	1587.7	14.1
50°-60°	2332.1	20.8
60°-70°	2937.2	26.1
70°-80°	1960.2	17.4
80°-90°	219.1	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°	11237.7	100.0
0°-180°	11237.7	100.0



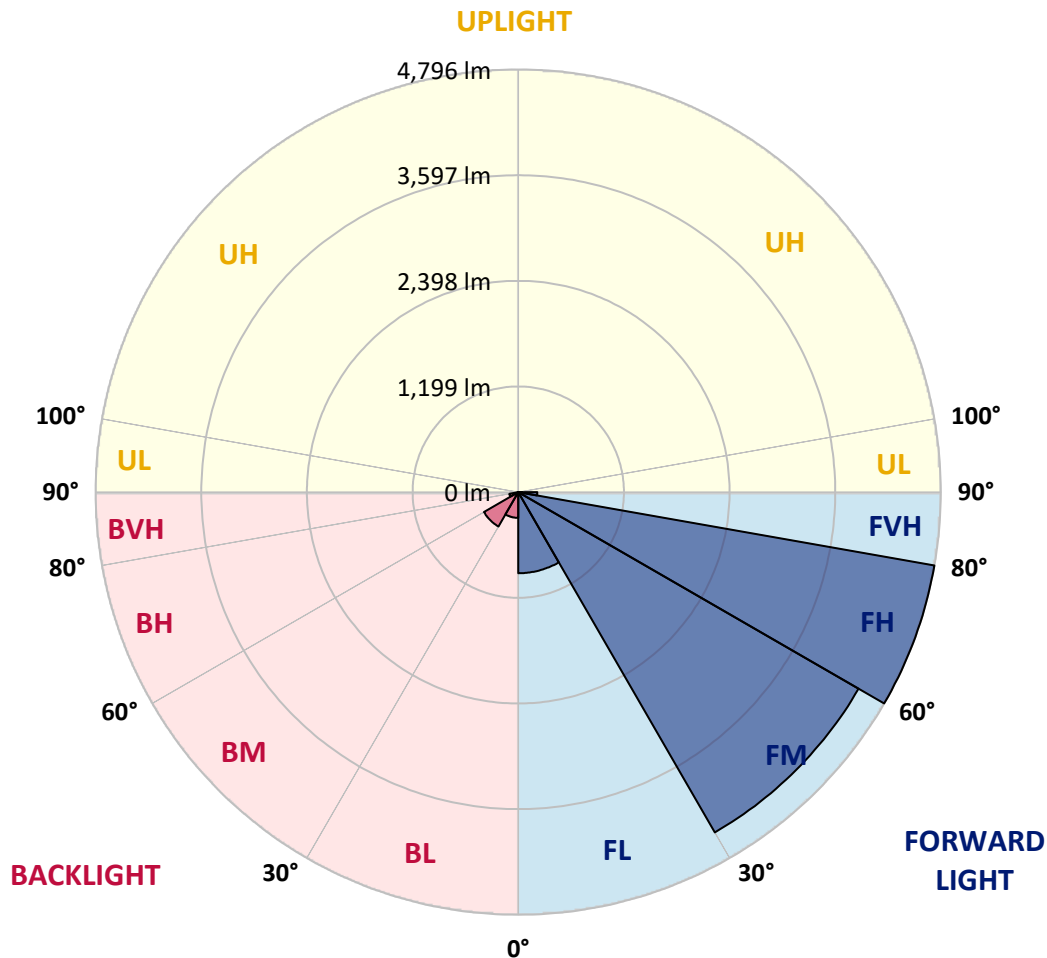
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	920.1	8.2			
FM	(30°-60°)	4459.3	39.7			
FH	(60°-80°)	4795.6	42.7			G2/5000
FVH	(80°-90°)	216.7	1.9			G2/225
BL	(0°-30°)	292.1	2.6	B1/500		
BM	(30°-60°)	449.7	4.0	B1/1000		
BH	(60°-80°)	101.8	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°	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0
2.5°	2107.8	2128.5	2107.8	2099.0	2090.1	2091.6	2068.0	2072.4	2044.4	2007.6	1978.1
5°	2174.2	2202.2	2180.0	2169.7	2168.3	2140.2	2128.5	2100.5	2066.5	2009.1	1973.7
7.5°	2168.3	2162.4	2172.7	2163.8	2144.7	2144.7	2131.4	2091.6	2057.7	1992.8	1932.4
10°	2124.0	2141.7	2132.9	2122.6	2127.0	2128.5	2103.4	2075.4	2065.1	2000.2	1901.5
12.5°	2119.6	2090.1	2122.6	2124.0	2104.9	2103.4	2100.5	2093.1	2060.7	2001.7	1908.8
15°	2104.9	2093.1	2125.5	2127.0	2131.4	2127.0	2131.4	2125.5	2093.1	2059.2	1941.3
17.5°	2116.7	2103.4	2149.1	2171.2	2160.9	2181.5	2174.2	2147.6	2119.6	2079.8	1972.2
20°	2119.6	2138.8	2188.9	2197.7	2230.2	2196.3	2194.8	2166.8	2149.1	2106.3	1991.4
22.5°	2174.2	2183.0	2244.9	2264.1	2265.5	2261.1	2224.3	2191.8	2184.5	2131.4	1995.8
25°	2256.7	2287.6	2315.7	2327.4	2331.9	2311.2	2272.9	2231.6	2213.9	2180.0	2041.5
27.5°	2402.6	2383.5	2408.5	2426.2	2376.1	2383.5	2334.8	2299.4	2274.4	2244.9	2094.6
30°	2532.3	2514.6	2516.1	2513.2	2470.4	2430.6	2417.4	2355.5	2324.5	2336.3	2177.1
32.5°	2648.8	2610.5	2642.9	2628.1	2548.5	2536.8	2526.4	2448.3	2454.2	2508.7	2300.9
35°	2756.4	2743.1	2769.6	2743.1	2690.1	2687.1	2676.8	2609.0	2641.4	2719.5	2513.2
37.5°	2855.1	2859.6	2892.0	2878.7	2883.1	2886.1	2880.2	2808.0	2900.8	3076.2	2760.8
40°	2946.5	2940.6	3020.2	3061.5	3070.3	3102.8	3102.8	3085.1	3228.1	3425.6	3104.2
42.5°	3043.8	3058.6	3161.7	3231.0	3315.0	3343.0	3381.4	3390.2	3611.3	3836.8	3455.1
45°	3203.0	3177.9	3309.1	3472.7	3546.4	3645.2	3704.2	3754.3	4021.1	4330.6	3805.9
47.5°	3404.9	3354.8	3469.8	3707.1	3878.1	3959.2	4065.3	4131.6	4392.5	4712.4	4137.5
50°	3629.0	3577.4	3633.4	3960.6	4159.6	4307.0	4442.6	4526.7	4842.1	5139.8	4379.3
52.5°	3882.5	3835.3	3844.2	4224.5	4517.8	4625.4	4803.8	4929.1	5243.0	5397.8	4464.7
55°	4152.3	4140.5	4112.5	4482.4	4831.8	5073.5	5181.1	5331.5	5654.3	5537.8	4557.6
57.5°	4423.5	4386.6	4426.4	4824.4	5335.9	5480.3	5629.2	5719.1	5882.7	5660.2	4522.2
60°	4678.5	4681.4	4737.4	5195.9	5764.8	5969.7	6103.8	6049.3	6117.1	5713.2	4441.2
62.5°	4893.7	4887.8	5029.3	5613.0	6332.3	6470.9	6571.1	6327.9	6226.2	5764.8	4299.7
65°	5086.8	5153.1	5375.7	6109.7	6865.9	7025.1	6964.7	6591.7	6332.3	5613.0	3901.7
67.5°	5232.7	5331.5	5717.6	6577.0	7355.3	7467.3	7383.3	6792.2	6207.0	5017.5	3177.9
70°	5318.2	5418.4	5962.3	6966.1	7745.9	7826.9	7629.4	6637.4	5475.9	3633.4	1982.5
71°	5291.7	5414.0	6009.5	7007.4	7838.7	7899.2	7592.6	6351.5	4924.6	3042.3	1446.0
72.5°	5051.4	5166.4	5813.5	6977.9	7726.7	7689.9	7305.1	5664.6	3876.6	1939.8	747.3
75°	3711.5	3835.3	4989.5	6036.0	6896.8	6643.3	5912.2	3975.4	2022.3	594.0	218.2
77.5°	1848.4	1869.0	3096.9	4382.2	5058.8	4806.7	3962.1	2216.9	756.2	175.4	109.1
80°	852.0	857.9	1161.5	2270.0	3058.6	2878.7	2219.8	1093.7	342.0	92.9	85.5
82.5°	580.8	589.6	700.2	940.4	1328.1	1120.2	899.1	700.2	196.0	56.0	84.0
85°	106.1	97.3	392.1	498.2	513.0	347.9	311.0	605.8	73.7	32.4	73.7
87.5°	0.0	1.5	54.5	203.4	182.8	81.1	106.1	147.4	7.4	10.3	13.3
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°	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0	1956.0
2.5°	1953.1	1936.8	1882.3	1821.9	1767.3	1724.6	1670.0	1645.0	1605.2	1583.1	1581.6
5°	1925.0	1880.8	1786.5	1684.8	1571.3	1476.9	1372.3	1313.3	1245.5	1224.9	1220.5
7.5°	1877.9	1814.5	1675.9	1533.0	1359.0	1192.5	1064.2	927.1	843.1	807.8	794.5
10°	1848.4	1771.7	1583.1	1369.3	1126.1	891.8	711.9	566.0	489.4	452.5	443.7
12.5°	1848.4	1765.9	1507.9	1213.1	890.3	610.2	440.7	356.7	331.7	322.8	322.8
15°	1844.0	1754.1	1435.7	1052.4	658.9	409.8	328.7	311.0	308.1	306.6	305.1
17.5°	1866.1	1733.4	1362.0	880.0	465.8	322.8	302.2	299.2	296.3	296.3	293.3
20°	1882.3	1721.6	1273.5	697.2	347.9	299.2	290.4	286.0	284.5	283.0	286.0
22.5°	1869.0	1703.9	1164.5	521.8	303.6	284.5	278.6	274.2	271.2	271.2	272.7
25°	1894.1	1687.7	1055.4	393.6	284.5	271.2	265.3	262.4	260.9	259.4	256.5
27.5°	1928.0	1695.1	925.7	316.9	268.3	258.0	252.1	249.1	247.6	244.7	247.6
30°	1969.3	1693.6	782.7	277.1	253.5	243.2	237.3	235.8	232.9	231.4	232.9
32.5°	2040.0	1732.0	635.3	256.5	237.3	228.5	222.6	221.1	219.6	218.2	216.7
35°	2191.8	1779.1	496.7	240.3	222.6	212.3	207.8	204.9	203.4	201.9	200.5
37.5°	2379.0	1883.8	378.8	225.5	207.8	197.5	193.1	191.6	185.7	184.3	182.8
40°	2613.4	1995.8	291.9	209.3	194.6	184.3	179.8	175.4	168.0	165.1	162.1
42.5°	2905.3	2104.9	240.3	194.6	179.8	172.5	165.1	157.7	151.8	145.9	143.0
45°	3197.1	2231.6	210.8	181.3	168.0	159.2	153.3	143.0	132.7	123.8	122.3
47.5°	3440.3	2277.3	193.1	166.6	156.2	148.9	140.0	126.8	112.0	103.2	101.7
50°	3621.6	2250.8	175.4	151.8	143.0	135.6	123.8	107.6	92.9	84.0	81.1
52.5°	3657.0	2134.4	159.2	140.0	129.7	120.9	107.6	89.9	73.7	64.9	63.4
55°	3631.9	1941.3	145.9	129.7	117.9	104.7	89.9	72.2	57.5	48.6	47.2
57.5°	3580.3	1712.8	131.2	116.4	103.2	89.9	73.7	59.0	42.7	33.9	33.9
60°	3404.9	1401.8	116.4	101.7	88.4	76.6	60.4	42.7	29.5	22.1	20.6
62.5°	3160.3	1077.5	101.7	87.0	76.6	63.4	47.2	31.0	17.7	11.8	11.8
65°	2713.6	754.7	85.5	72.2	63.4	51.6	35.4	19.2	10.3	4.4	4.4
67.5°	2062.1	467.3	70.8	60.4	54.5	41.3	25.1	11.8	4.4	1.5	0.0
70°	1183.6	243.2	56.0	48.6	42.7	31.0	17.7	5.9	2.9	0.0	0.0
71°	826.9	179.8	50.1	42.7	38.3	28.0	14.7	4.4	1.5	0.0	0.0
72.5°	414.2	119.4	42.7	35.4	31.0	22.1	11.8	4.4	1.5	0.0	0.0
75°	147.4	76.6	29.5	23.6	22.1	16.2	7.4	2.9	1.5	0.0	0.0
77.5°	101.7	61.9	20.6	14.7	14.7	10.3	4.4	1.5	1.5	0.0	0.0
80°	92.9	33.9	13.3	8.8	7.4	5.9	2.9	1.5	0.0	0.0	0.0
82.5°	92.9	25.1	7.4	5.9	4.4	2.9	1.5	0.0	0.0	0.0	0.0
85°	64.9	13.3	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)