

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: P483482

Luminaire Tested: **IFLD-M-SA4C-722-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483482
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

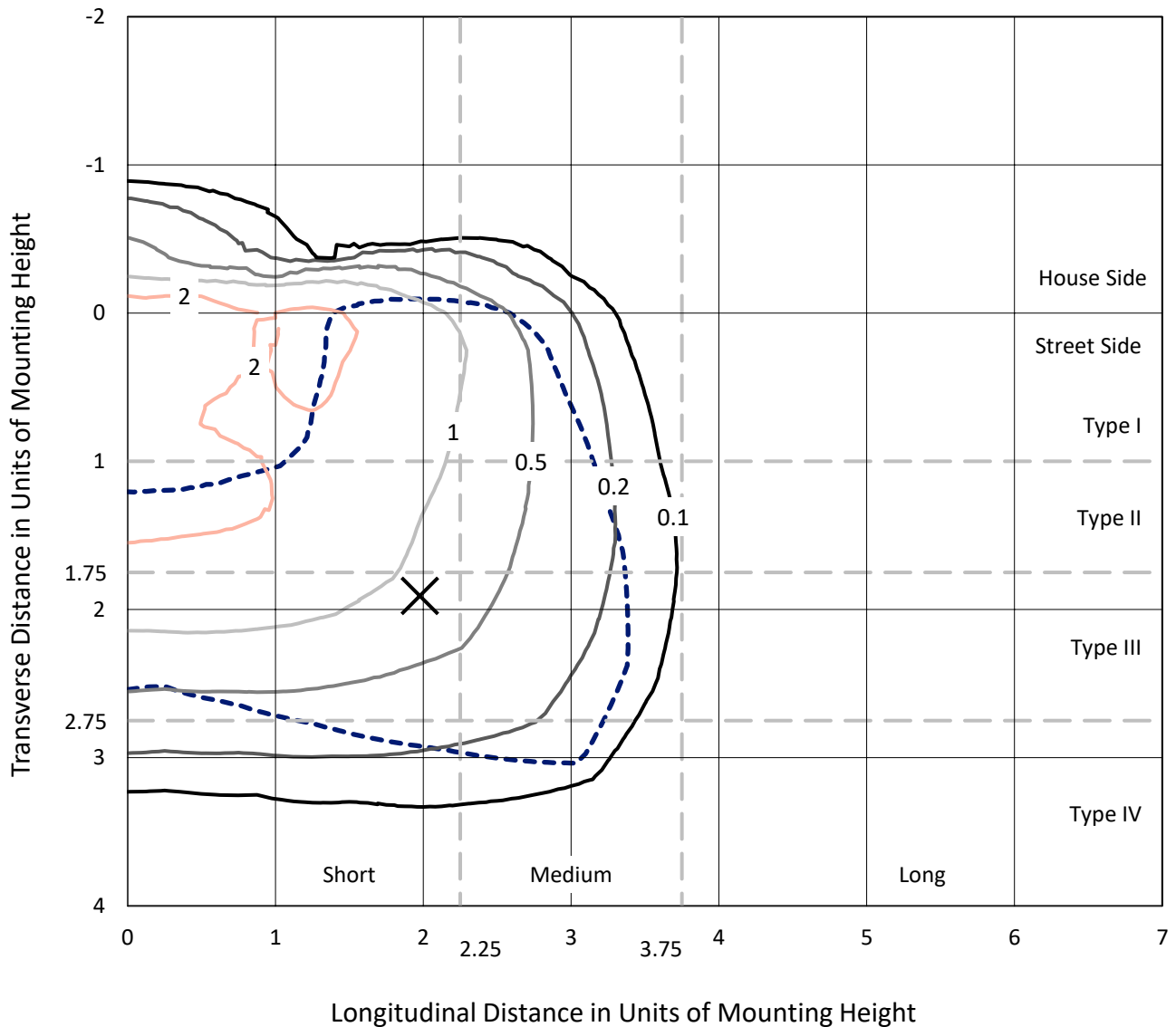
Lumens per Lamp: N/A
Luminaire Lumens: 15452.3 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1
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

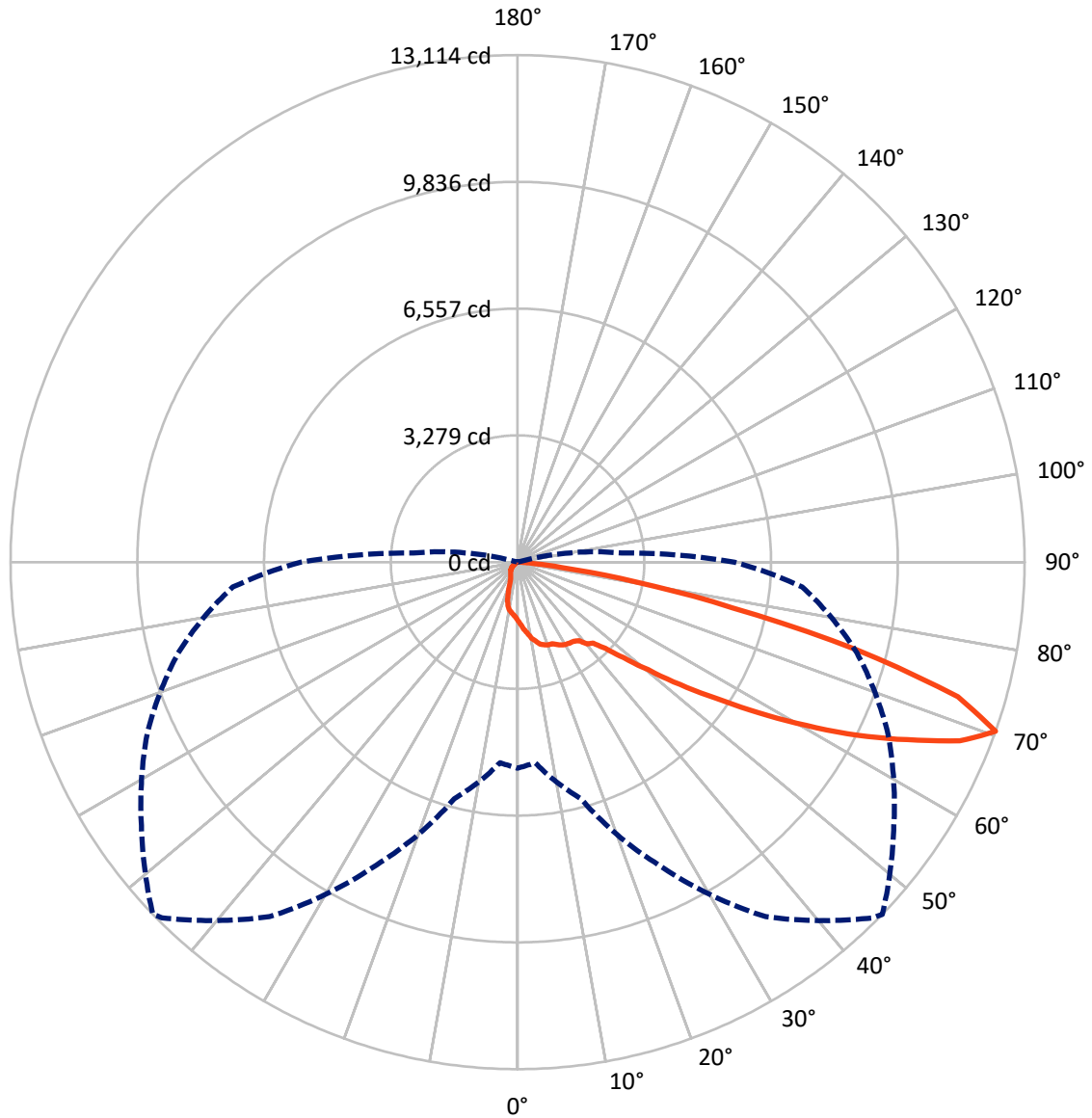
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1537.5	0.0	1537.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	13914.8	0.0	13914.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	15452.3	0.0	15452.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	1.0
10°-20°	456.8	3.0
20°-30°	731.7	4.7
30°-40°	1044.3	6.8
40°-50°	1803.3	11.7
50°-60°	3452.6	22.3
60°-70°	5112.7	33.1
70°-80°	2532.3	16.4
80°-90°	167.3	1.1
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°	15452.3	100.0
0°-180°	15452.3	100.0

Coefficient of Utilization



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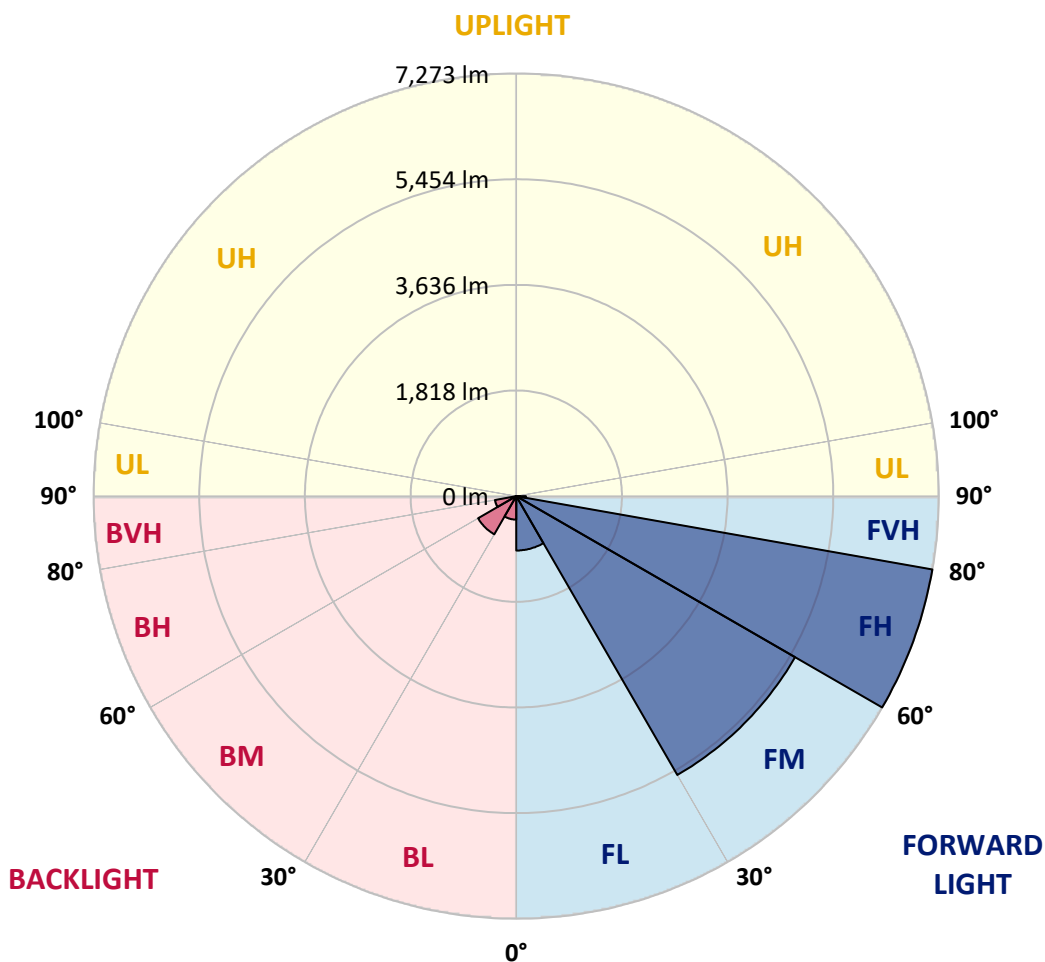
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	935.8	6.1			
FM (30°-60°)	5541.2	35.9			
FH (60°-80°)	7272.7	47.1			G3/7500
FVH (80°-90°)	165.2	1.1			G2/225
BL (0°-30°)	403.9	2.6	B1/500		
BM (30°-60°)	759.1	4.9	B1/1000		
BH (60°-80°)	372.4	2.4	B1/500		G1/500
BVH (80°-90°)	2.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9
2.5°	1692.7	1681.5	1663.7	1657.1	1639.3	1630.4	1617.0	1610.4	1585.9	1561.4	1545.9
5°	1899.5	1872.8	1881.7	1855.0	1797.2	1750.5	1748.3	1697.1	1641.5	1597.0	1537.0
7.5°	2108.6	2086.3	2053.0	2015.2	1950.7	1881.7	1861.7	1812.8	1734.9	1657.1	1577.0
10°	2266.5	2250.9	2222.0	2168.6	2079.7	2001.8	2004.0	1921.8	1839.5	1750.5	1641.5
12.5°	2364.4	2371.0	2328.8	2275.4	2197.6	2099.7	2097.5	2041.9	1948.4	1855.0	1726.0
15°	2462.2	2486.7	2422.2	2359.9	2259.8	2188.7	2202.0	2135.3	2044.1	1937.3	1795.0
17.5°	2477.8	2484.5	2471.1	2379.9	2306.5	2246.5	2248.7	2204.2	2135.3	2019.6	1897.3
20°	2451.1	2446.7	2431.1	2364.4	2315.4	2279.9	2282.1	2271.0	2233.1	2139.7	1972.9
22.5°	2373.3	2373.3	2353.3	2308.8	2286.5	2319.9	2293.2	2335.5	2295.4	2239.8	2101.9
25°	2311.0	2335.5	2324.3	2295.4	2304.3	2348.8	2362.2	2402.2	2395.5	2326.6	2190.9
27.5°	2377.7	2348.8	2355.5	2322.1	2355.5	2422.2	2428.9	2457.8	2455.6	2400.0	2271.0
30°	2422.2	2448.9	2397.7	2324.3	2359.9	2473.4	2468.9	2506.7	2524.5	2457.8	2346.6
32.5°	2564.6	2542.3	2500.1	2402.2	2406.6	2471.1	2491.2	2540.1	2551.2	2511.2	2420.0
35°	2855.9	2822.6	2638.0	2491.2	2468.9	2500.1	2513.4	2609.0	2629.1	2584.6	2497.8
37.5°	3305.2	3229.6	3007.2	2682.4	2582.4	2575.7	2575.7	2702.5	2778.1	2675.8	2613.5
40°	3948.0	3841.3	3601.1	3036.1	2731.4	2758.1	2784.8	2853.7	2844.8	2778.1	2764.7
42.5°	4766.6	4684.3	4424.0	3630.0	3016.1	2882.6	2860.4	2953.8	3093.9	3067.2	3058.3
45°	5449.4	5453.9	5287.0	4444.0	3507.6	3169.6	3185.1	3256.3	3492.1	3472.1	3469.8
47.5°	5947.6	5885.4	5860.9	5229.2	4223.8	3714.5	3692.3	3741.2	4048.1	4174.9	4232.7
50°	6401.4	6359.1	6301.3	5992.1	5084.6	4397.3	4375.1	4379.5	4848.9	5026.8	5169.2
52.5°	6964.1	7017.5	6826.2	6637.2	6199.0	5284.8	5260.3	5173.6	5756.4	6001.0	6170.1
55°	7658.1	7558.0	7342.2	7440.1	7264.4	6243.5	6199.0	6096.7	6790.6	6892.9	7070.9
57.5°	7811.6	7735.9	7958.4	8305.3	8474.4	7368.9	7351.1	7166.5	7660.3	7566.9	8069.6
60°	8194.1	8214.1	8523.3	9212.8	9506.4	8667.9	8581.2	8256.4	8503.3	8521.1	9057.1
62.5°	8587.8	8541.1	9232.9	9895.7	10347.2	9897.9	9869.0	9224.0	9504.2	9277.3	9986.9
65°	8298.7	8369.8	9359.6	10469.5	11437.1	11101.2	11076.8	10155.9	10309.4	10026.9	10365.0
67.5°	7271.1	7126.5	8512.2	10207.1	11997.6	12362.4	12335.7	11172.4	10763.1	10022.5	9579.8
70°	5329.3	5204.7	6334.7	8643.4	11194.6	13007.4	13114.2	11879.7	10578.5	9088.3	7391.2
72.5°	2611.3	2613.5	3549.9	5860.9	8857.0	11855.2	11908.6	10892.1	9088.3	6699.4	4186.0
75°	771.8	780.7	1314.5	2873.7	5725.2	9003.8	9063.8	8267.5	6299.1	3460.9	1428.0
77.5°	282.5	282.5	436.0	1078.8	2855.9	5683.0	5678.5	5075.7	3189.6	1172.2	333.6
80°	146.8	153.5	226.9	440.4	1236.7	2960.5	3071.7	2484.5	1212.2	493.8	97.9
82.5°	60.1	66.7	124.6	226.9	593.9	1038.7	1136.6	974.2	527.1	344.8	44.5
85°	17.8	20.0	60.1	126.8	233.5	260.2	289.2	327.0	331.4	266.9	20.0
87.5°	2.2	2.2	24.5	42.3	51.2	55.6	64.5	64.5	169.0	186.8	11.1
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°	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9
2.5°	1528.1	1516.9	1499.1	1459.1	1450.2	1421.3	1419.1	1392.4	1401.3	1383.5	1376.8
5°	1516.9	1492.5	1443.5	1412.4	1381.3	1361.2	1347.9	1336.8	1334.5	1325.7	1321.2
7.5°	1537.0	1503.6	1428.0	1379.0	1325.7	1307.9	1278.9	1276.7	1261.1	1245.6	1245.6
10°	1603.7	1543.6	1461.3	1379.0	1310.1	1252.3	1185.5	1136.6	1118.8	1078.8	1083.2
12.5°	1657.1	1603.7	1483.6	1399.1	1294.5	1163.3	1016.5	903.0	849.7	798.5	818.5
15°	1732.7	1654.8	1525.8	1403.5	1234.5	1007.6	767.4	640.6	591.7	580.5	578.3
17.5°	1815.0	1732.7	1579.2	1392.4	1112.1	778.5	565.0	491.6	500.5	513.8	511.6
20°	1906.2	1806.1	1619.3	1354.6	918.6	565.0	462.6	460.4	473.8	493.8	498.2
22.5°	2001.8	1915.1	1668.2	1241.1	685.1	453.7	444.8	444.8	453.7	478.2	473.8
25°	2108.6	1992.9	1692.7	1065.4	491.6	418.2	422.6	431.5	436.0	456.0	458.2
27.5°	2190.9	2079.7	1699.3	854.1	400.4	387.0	398.1	409.3	415.9	431.5	438.2
30°	2266.5	2188.7	1663.7	636.1	367.0	360.3	364.8	380.3	393.7	407.0	407.0
32.5°	2362.2	2250.9	1581.4	451.5	347.0	335.9	333.6	340.3	355.9	371.4	371.4
35°	2460.0	2355.5	1450.2	362.6	329.2	313.6	304.7	298.0	304.7	315.8	324.7
37.5°	2602.4	2513.4	1285.6	333.6	315.8	293.6	275.8	260.2	249.1	246.9	253.6
40°	2804.8	2691.3	1074.3	313.6	300.3	273.6	246.9	220.2	195.7	180.2	182.4
42.5°	3111.7	2953.8	845.2	302.5	289.2	251.3	213.5	175.7	144.6	129.0	129.0
45°	3549.9	3300.8	620.6	291.4	275.8	224.6	175.7	131.2	100.1	91.2	93.4
47.5°	4210.5	3718.9	444.8	273.6	258.0	195.7	137.9	93.4	73.4	69.0	71.2
50°	5073.5	4215.0	347.0	253.6	235.8	164.6	102.3	69.0	57.8	55.6	57.8
52.5°	5978.8	4715.4	304.7	235.8	202.4	131.2	75.6	55.6	48.9	46.7	48.9
55°	6752.8	5037.9	264.7	209.1	162.4	97.9	60.1	48.9	42.3	35.6	35.6
57.5°	7535.8	5200.3	209.1	173.5	120.1	73.4	51.2	42.3	35.6	28.9	26.7
60°	8171.9	5316.0	149.0	129.0	84.5	57.8	44.5	37.8	28.9	22.2	20.0
62.5°	8590.0	4984.5	109.0	97.9	62.3	48.9	37.8	31.1	22.2	15.6	15.6
65°	8383.2	4526.3	84.5	69.0	46.7	37.8	31.1	22.2	15.6	8.9	6.7
67.5°	7522.4	3687.8	69.0	51.2	35.6	28.9	24.5	17.8	8.9	2.2	2.2
70°	5611.8	2702.5	55.6	37.8	28.9	22.2	17.8	11.1	4.4	2.2	0.0
72.5°	3069.5	1479.1	44.5	31.1	22.2	17.8	13.3	8.9	4.4	0.0	0.0
75°	1014.3	393.7	33.4	22.2	13.3	11.1	8.9	6.7	2.2	0.0	0.0
77.5°	244.7	102.3	26.7	20.0	11.1	6.7	4.4	2.2	2.2	0.0	0.0
80°	75.6	42.3	20.0	13.3	8.9	6.7	2.2	0.0	0.0	0.0	0.0
82.5°	31.1	20.0	8.9	8.9	6.7	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.6	11.1	6.7	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	4.4	2.2	2.2	0.0	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)