

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: P483579

Luminaire Tested: **IFLD-S-SA3C-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483579
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

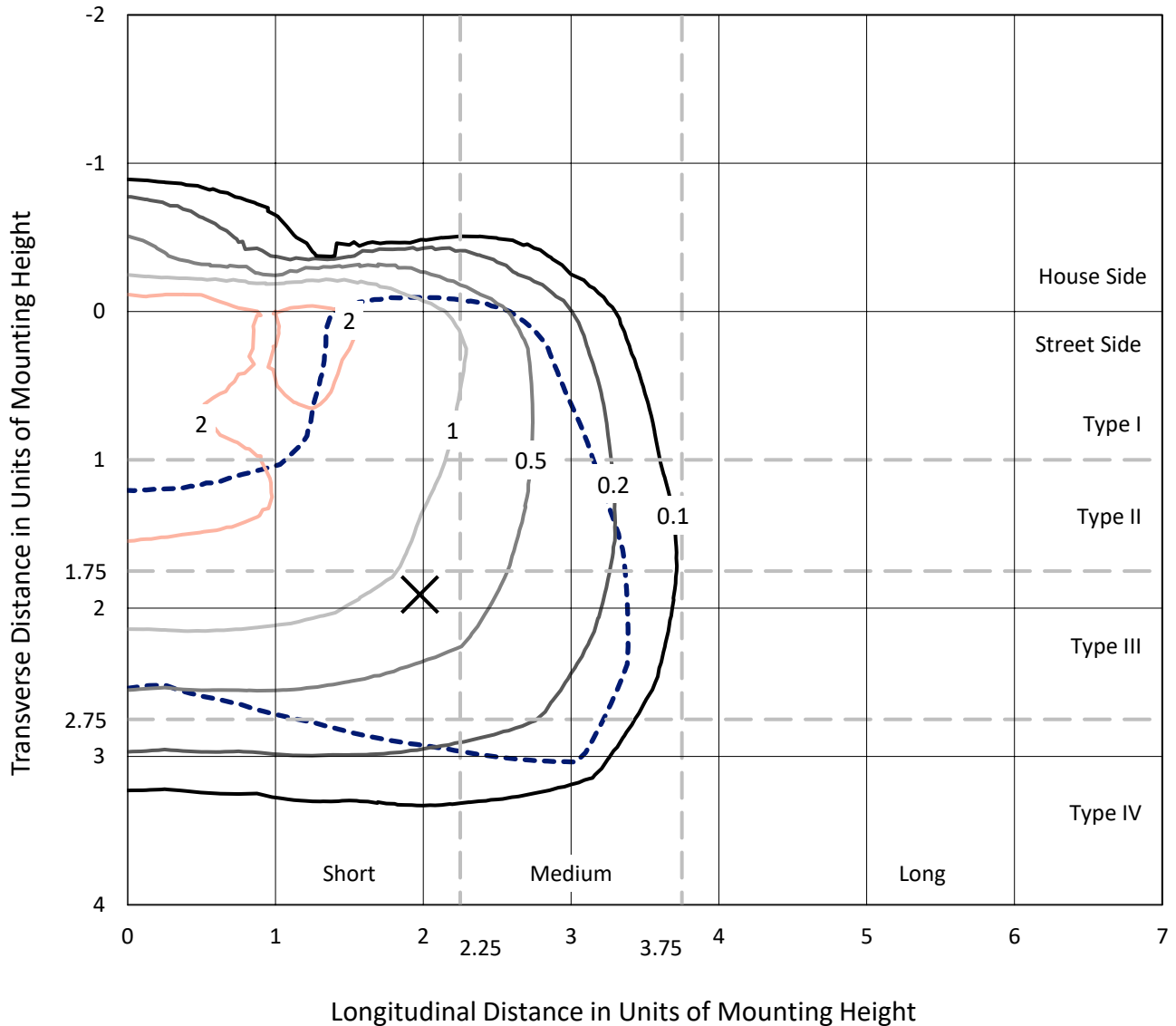
Lumens per Lamp: N/A
Luminaire Lumens: 15414.7 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

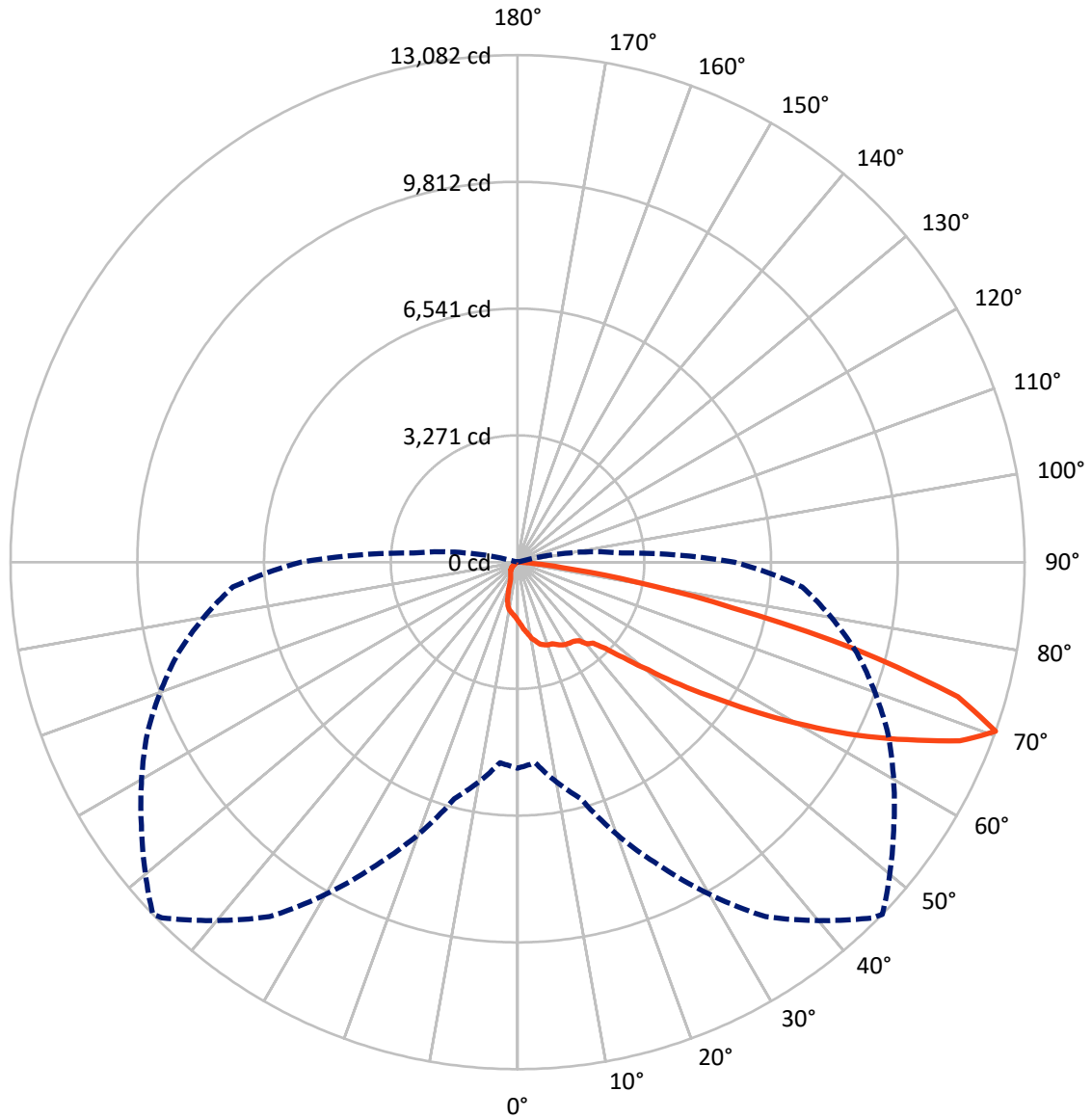
✕ Max cd
 - - - 1/2 Max cd



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	1533.8	0.0	1533.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	13880.9	0.0	13880.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	15414.7	0.0	15414.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	1.0
10°-20°	455.7	3.0
20°-30°	729.9	4.7
30°-40°	1041.8	6.8
40°-50°	1798.9	11.7
50°-60°	3444.2	22.3
60°-70°	5100.3	33.1
70°-80°	2526.1	16.4
80°-90°	166.9	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°	15414.7	100.0
0°-180°	15414.7	100.0

Coefficient of Utilization



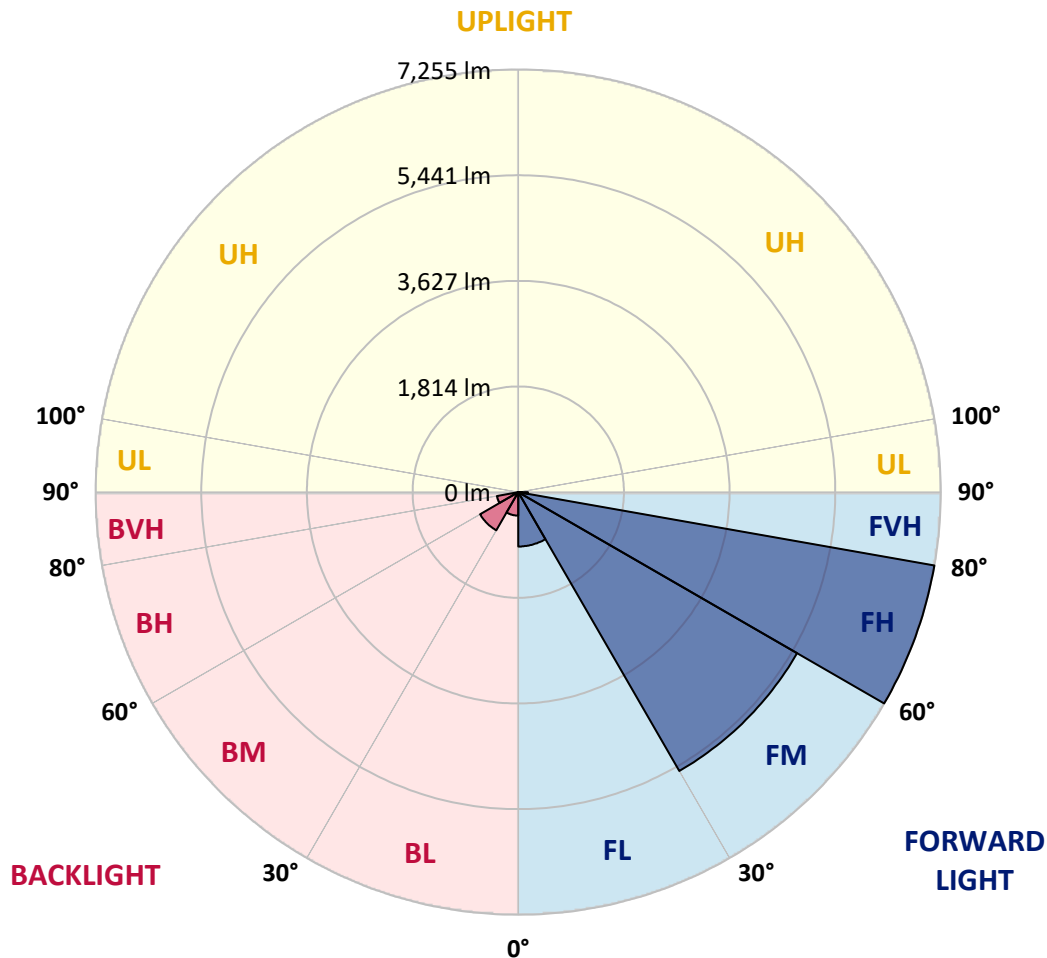
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.5	6.1			
FM (30°-60°)	5527.7	35.9			
FH (60°-80°)	7255.0	47.1			G3/7500
FVH (80°-90°)	164.8	1.1			G2/225
BL (0°-30°)	403.0	2.6	B1/500		
BM (30°-60°)	757.2	4.9	B1/1000		
BH (60°-80°)	371.5	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°	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2
2.5°	1688.5	1677.4	1659.7	1653.0	1635.3	1626.4	1613.1	1606.4	1582.0	1557.6	1542.1
5°	1894.9	1868.3	1877.1	1850.5	1792.8	1746.2	1744.0	1693.0	1637.5	1593.1	1533.2
7.5°	2103.5	2081.3	2048.0	2010.3	1945.9	1877.1	1857.2	1808.3	1730.7	1653.0	1573.2
10°	2261.0	2245.5	2216.6	2163.4	2074.6	1996.9	1999.2	1917.1	1835.0	1746.2	1637.5
12.5°	2358.6	2365.3	2323.1	2269.9	2192.2	2094.6	2092.4	2036.9	1943.7	1850.5	1721.8
15°	2456.2	2480.7	2416.3	2354.2	2254.3	2183.3	2196.6	2130.1	2039.1	1932.6	1790.6
17.5°	2471.8	2478.4	2465.1	2374.2	2300.9	2241.0	2243.2	2198.9	2130.1	2014.7	1892.7
20°	2445.2	2440.7	2425.2	2358.6	2309.8	2274.3	2276.5	2265.4	2227.7	2134.5	1968.1
22.5°	2367.5	2367.5	2347.5	2303.1	2281.0	2314.2	2287.6	2329.8	2289.8	2234.4	2096.8
25°	2305.4	2329.8	2318.7	2289.8	2298.7	2343.1	2356.4	2396.3	2389.7	2320.9	2185.6
27.5°	2371.9	2343.1	2349.7	2316.5	2349.7	2416.3	2423.0	2451.8	2449.6	2394.1	2265.4
30°	2416.3	2442.9	2391.9	2318.7	2354.2	2467.3	2462.9	2500.6	2518.4	2451.8	2340.9
32.5°	2558.3	2536.1	2494.0	2396.3	2400.8	2465.1	2485.1	2533.9	2545.0	2505.1	2414.1
35°	2849.0	2815.7	2631.5	2485.1	2462.9	2494.0	2507.3	2602.7	2622.7	2578.3	2491.7
37.5°	3297.2	3221.7	2999.9	2675.9	2576.1	2569.4	2569.4	2695.9	2771.3	2669.3	2607.1
40°	3938.4	3831.9	3592.3	3028.7	2724.7	2751.4	2778.0	2846.8	2837.9	2771.3	2758.0
42.5°	4755.0	4672.9	4413.3	3621.1	3008.7	2875.6	2853.4	2946.6	3086.4	3059.8	3050.9
45°	5436.1	5440.6	5274.2	4433.2	3499.1	3161.8	3177.4	3248.4	3483.6	3463.6	3461.4
47.5°	5933.2	5871.0	5846.6	5216.5	4213.6	3705.5	3683.3	3732.1	4038.3	4164.7	4222.4
50°	6385.8	6343.6	6286.0	5977.5	5072.3	4386.6	4364.4	4368.9	4837.1	5014.6	5156.6
52.5°	6947.2	7000.4	6809.6	6621.0	6183.9	5271.9	5247.5	5161.0	5742.3	5986.4	6155.0
55°	7639.4	7539.6	7324.4	7422.0	7246.7	6228.3	6183.9	6081.8	6774.1	6876.2	7053.7
57.5°	7792.5	7717.1	7939.0	8285.1	8453.8	7351.0	7333.2	7149.1	7641.7	7548.5	8049.9
60°	8174.2	8194.1	8502.6	9190.4	9483.3	8646.8	8560.3	8236.3	8482.6	8500.3	9035.1
62.5°	8566.9	8520.3	9210.4	9871.6	10322.0	9873.8	9845.0	9201.5	9481.1	9254.8	9962.6
65°	8278.5	8349.5	9336.8	10444.0	11409.2	11074.2	11049.8	10131.2	10284.3	10002.5	10339.8
67.5°	7253.4	7109.1	8491.5	10182.2	11968.4	12332.3	12305.6	11145.2	10736.9	9998.1	9556.5
70°	5316.3	5192.1	6319.2	8622.4	11167.4	12975.7	13082.2	11850.8	10552.8	9066.2	7373.2
72.5°	2604.9	2607.1	3541.3	5846.6	8835.4	11826.4	11879.6	10865.6	9066.2	6683.1	4175.8
75°	769.9	778.8	1311.3	2866.7	5711.3	8981.8	9041.7	8247.4	6283.7	3452.5	1424.5
77.5°	281.8	281.8	434.9	1076.1	2849.0	5669.1	5664.7	5063.4	3181.8	1169.3	332.8
80°	146.4	153.1	226.3	439.3	1233.7	2953.3	3064.2	2478.4	1209.3	492.6	97.6
82.5°	59.9	66.6	124.3	226.3	592.4	1036.2	1133.8	971.8	525.9	343.9	44.4
85°	17.8	20.0	59.9	126.5	233.0	259.6	288.4	326.2	330.6	266.3	20.0
87.5°	2.2	2.2	24.4	42.2	51.0	55.5	64.3	64.3	168.6	186.4	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°	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2
2.5°	1524.3	1513.2	1495.5	1455.6	1446.7	1417.8	1415.6	1389.0	1397.9	1380.1	1373.5
5°	1513.2	1488.8	1440.0	1409.0	1377.9	1357.9	1344.6	1333.5	1331.3	1322.4	1318.0
7.5°	1533.2	1499.9	1424.5	1375.7	1322.4	1304.7	1275.8	1273.6	1258.1	1242.5	1242.5
10°	1599.8	1539.9	1457.8	1375.7	1306.9	1249.2	1182.6	1133.8	1116.1	1076.1	1080.6
12.5°	1653.0	1599.8	1480.0	1395.6	1291.4	1160.4	1014.0	900.8	847.6	796.6	816.5
15°	1728.5	1650.8	1522.1	1400.1	1231.5	1005.1	765.5	639.0	590.2	579.1	576.9
17.5°	1810.6	1728.5	1575.4	1389.0	1109.4	776.6	563.6	490.4	499.2	512.6	510.3
20°	1901.5	1801.7	1615.3	1351.3	916.4	563.6	461.5	459.3	472.6	492.6	497.0
22.5°	1996.9	1910.4	1664.1	1238.1	683.4	452.6	443.8	443.8	452.6	477.0	472.6
25°	2103.5	1988.1	1688.5	1062.8	490.4	417.1	421.6	430.5	434.9	454.9	457.1
27.5°	2185.6	2074.6	1695.2	852.0	399.4	386.1	397.2	408.3	414.9	430.5	437.1
30°	2261.0	2183.3	1659.7	634.6	366.1	359.5	363.9	379.4	392.7	406.0	406.0
32.5°	2356.4	2245.5	1577.6	450.4	346.1	335.0	332.8	339.5	355.0	370.5	370.5
35°	2454.0	2349.7	1446.7	361.7	328.4	312.9	304.0	297.3	304.0	315.1	323.9
37.5°	2596.0	2507.3	1282.5	332.8	315.1	292.9	275.1	259.6	248.5	246.3	252.9
40°	2797.9	2684.8	1071.7	312.9	299.5	272.9	246.3	219.7	195.3	179.7	181.9
42.5°	3104.1	2946.6	843.2	301.8	288.4	250.7	213.0	175.3	144.2	128.7	128.7
45°	3541.3	3292.7	619.1	290.7	275.1	224.1	175.3	130.9	99.8	91.0	93.2
47.5°	4200.3	3709.9	443.8	272.9	257.4	195.3	137.6	93.2	73.2	68.8	71.0
50°	5061.2	4204.7	346.1	252.9	235.2	164.2	102.1	68.8	57.7	55.5	57.7
52.5°	5964.2	4703.9	304.0	235.2	201.9	130.9	75.4	55.5	48.8	46.6	48.8
55°	6736.4	5025.7	264.0	208.6	162.0	97.6	59.9	48.8	42.2	35.5	35.5
57.5°	7517.4	5187.6	208.6	173.1	119.8	73.2	51.0	42.2	35.5	28.8	26.6
60°	8152.0	5303.0	148.7	128.7	84.3	57.7	44.4	37.7	28.8	22.2	20.0
62.5°	8569.1	4972.4	108.7	97.6	62.1	48.8	37.7	31.1	22.2	15.5	15.5
65°	8362.8	4515.3	84.3	68.8	46.6	37.7	31.1	22.2	15.5	8.9	6.7
67.5°	7504.1	3678.8	68.8	51.0	35.5	28.8	24.4	17.8	8.9	2.2	2.2
70°	5598.1	2695.9	55.5	37.7	28.8	22.2	17.8	11.1	4.4	2.2	0.0
72.5°	3062.0	1475.5	44.4	31.1	22.2	17.8	13.3	8.9	4.4	0.0	0.0
75°	1011.8	392.7	33.3	22.2	13.3	11.1	8.9	6.7	2.2	0.0	0.0
77.5°	244.1	102.1	26.6	20.0	11.1	6.7	4.4	2.2	2.2	0.0	0.0
80°	75.4	42.2	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°	15.5	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)