

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: P483802

Luminaire Tested: **IFLD-L-SA8A-830-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483802
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

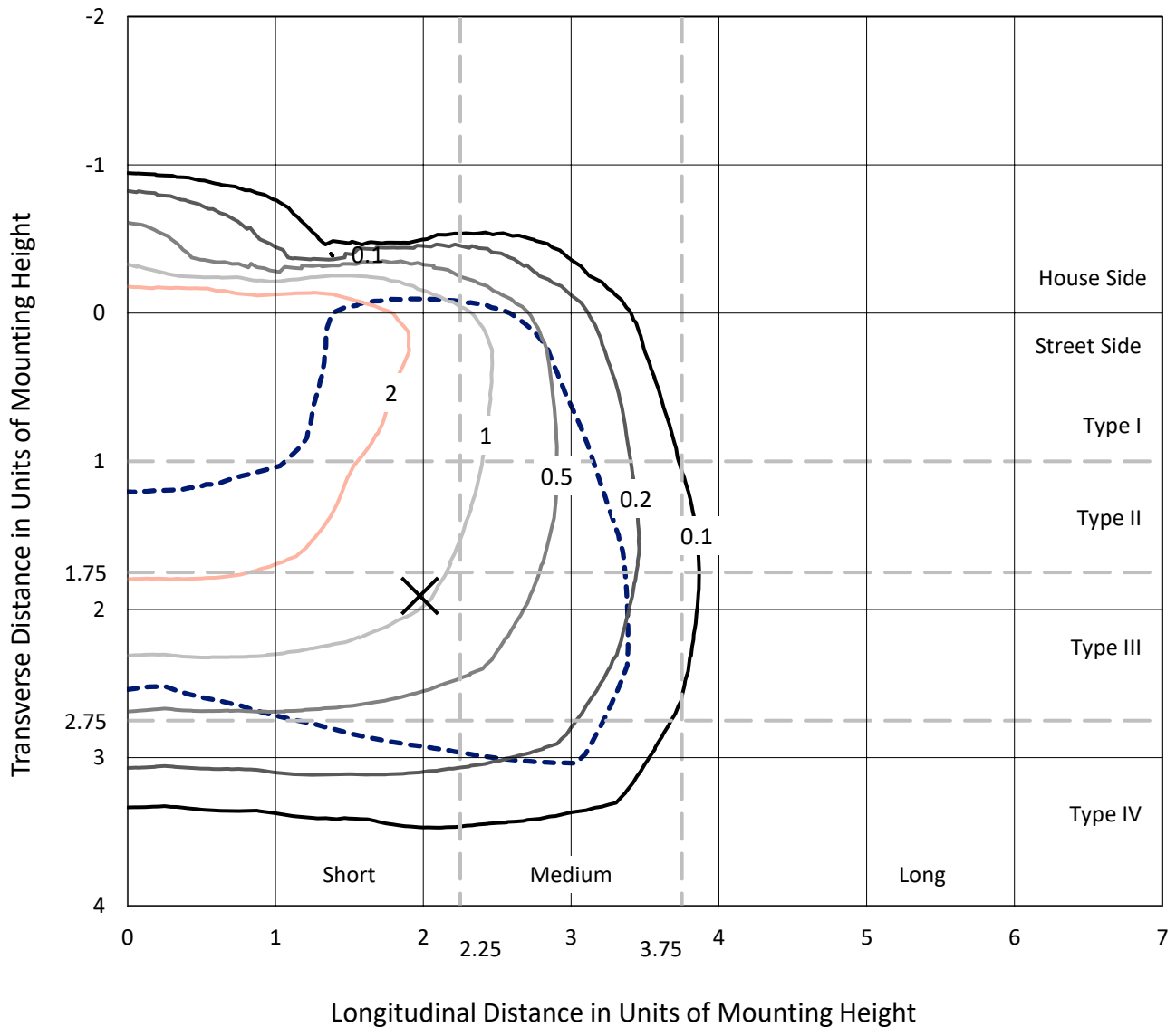
Lumens per Lamp: N/A
Luminaire Lumens: 20083.9 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (A_{in}): 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

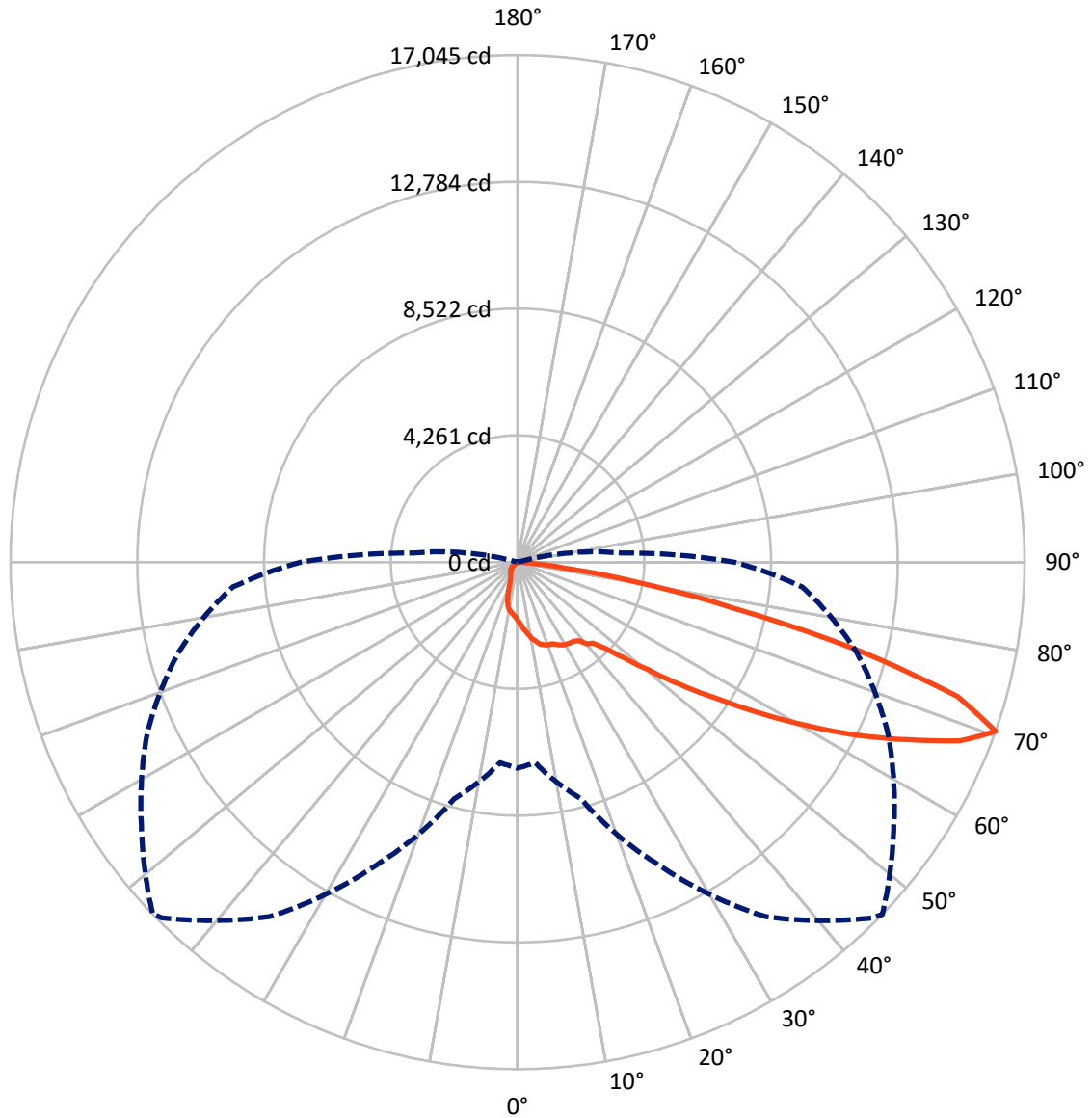
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	1998.4	0.0	1998.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	18085.5	0.0	18085.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	20083.9	0.0	20083.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.0
10°-20°	593.7	3.0
20°-30°	951.0	4.7
30°-40°	1357.4	6.8
40°-50°	2343.8	11.7
50°-60°	4487.5	22.3
60°-70°	6645.2	33.1
70°-80°	3291.3	16.4
80°-90°	217.5	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°	20083.9	100.0
0°-180°	20083.9	100.0

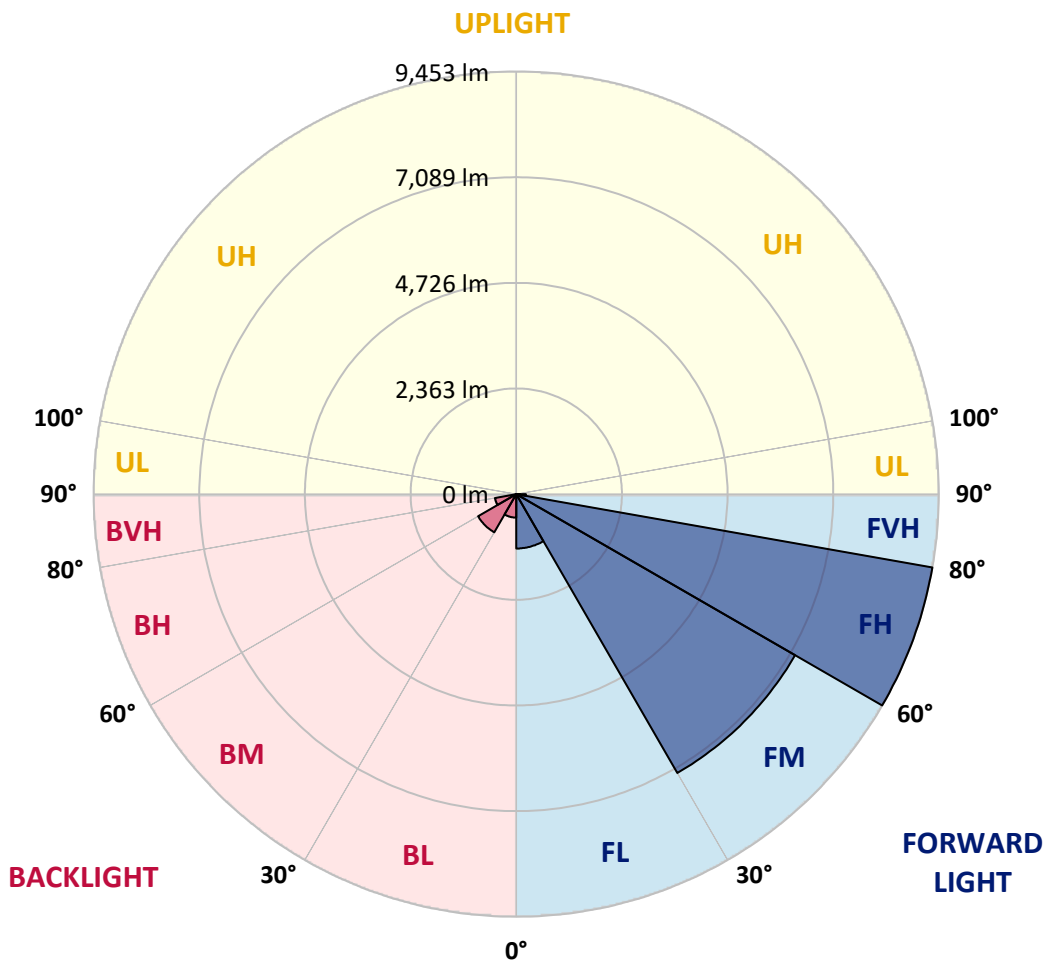


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.2	6.1			
FM (30°-60°)	7202.0	35.9			
FH (60°-80°)	9452.5	47.1			G4/12000
FVH (80°-90°)	214.7	1.1			G2/225
BL (0°-30°)	525.0	2.6	B2/1000		
BM (30°-60°)	986.6	4.9	B1/1000		
BH (60°-80°)	484.0	2.4	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6
2.5°	2200.0	2185.5	2162.4	2153.7	2130.6	2119.1	2101.7	2093.0	2061.2	2029.4	2009.2
5°	2468.9	2434.2	2445.7	2411.0	2335.9	2275.2	2272.3	2205.8	2133.5	2075.7	1997.6
7.5°	2740.6	2711.7	2668.3	2619.2	2535.3	2445.7	2419.7	2356.1	2254.9	2153.7	2049.7
10°	2945.9	2925.6	2888.0	2818.7	2703.0	2601.8	2604.7	2497.8	2390.8	2275.2	2133.5
12.5°	3073.1	3081.7	3026.8	2957.4	2856.2	2729.0	2726.1	2653.9	2532.5	2411.0	2243.4
15°	3200.3	3232.1	3148.2	3067.3	2937.2	2844.7	2862.0	2775.3	2656.8	2518.0	2333.0
17.5°	3220.5	3229.2	3211.8	3093.3	2997.9	2919.8	2922.7	2864.9	2775.3	2625.0	2466.0
20°	3185.8	3180.0	3159.8	3073.1	3009.5	2963.2	2966.1	2951.6	2902.5	2781.1	2564.3
22.5°	3084.6	3084.6	3058.6	3000.8	2971.9	3015.2	2980.5	3035.5	2983.4	2911.2	2731.9
25°	3003.7	3035.5	3021.0	2983.4	2995.0	3052.8	3070.2	3122.2	3113.5	3023.9	2847.6
27.5°	3090.4	3052.8	3061.5	3018.1	3061.5	3148.2	3156.9	3194.5	3191.6	3119.3	2951.6
30°	3148.2	3182.9	3116.4	3021.0	3067.3	3214.7	3208.9	3258.1	3281.2	3194.5	3049.9
32.5°	3333.2	3304.3	3249.4	3122.2	3128.0	3211.8	3237.8	3301.4	3315.9	3263.9	3145.3
35°	3712.0	3668.6	3428.6	3237.8	3208.9	3249.4	3266.7	3391.1	3417.1	3359.3	3246.5
37.5°	4295.9	4197.6	3908.5	3486.5	3356.4	3347.7	3347.7	3512.5	3610.8	3477.8	3396.8
40°	5131.4	4992.6	4680.4	3946.1	3550.1	3584.8	3619.4	3709.1	3697.5	3610.8	3593.4
42.5°	6195.3	6088.3	5750.1	4718.0	3920.1	3746.6	3717.7	3839.2	4021.3	3986.6	3975.0
45°	7082.8	7088.6	6871.7	5776.1	4559.0	4119.6	4139.8	4232.3	4538.8	4512.7	4509.8
47.5°	7730.3	7649.4	7617.6	6796.6	5489.9	4827.8	4798.9	4862.5	5261.5	5426.3	5501.4
50°	8320.1	8265.2	8190.0	7788.2	6608.7	5715.4	5686.5	5692.2	6302.2	6533.5	6718.5
52.5°	9051.5	9120.9	8872.3	8626.5	8057.0	6868.8	6837.0	6724.3	7481.7	7799.7	8019.4
55°	9953.5	9823.4	9543.0	9670.2	9441.8	8114.8	8057.0	7924.0	8826.0	8959.0	9190.3
57.5°	10152.9	10054.6	10343.7	10794.7	11014.4	9577.6	9554.5	9314.6	9956.4	9834.9	10488.3
60°	10650.2	10676.2	11078.0	11974.2	12355.8	11265.9	11153.2	10731.1	11052.0	11075.1	11771.9
62.5°	11161.9	11101.2	12000.2	12861.7	13448.6	12864.6	12827.0	11988.7	12352.9	12058.1	12980.3
65°	10786.1	10878.6	12165.0	13607.6	14865.2	14428.6	14396.8	13200.0	13399.5	13032.3	13471.7
67.5°	9450.4	9262.5	11063.6	13266.5	15593.7	16067.8	16033.1	14521.1	13989.2	13026.5	12451.2
70°	6926.7	6764.8	8233.4	11234.1	14550.0	16906.1	17044.9	15440.4	13749.3	11812.3	9606.6
72.5°	3393.9	3396.8	4613.9	7617.6	11511.7	15408.6	15478.0	14156.9	11812.3	8707.5	5440.7
75°	1003.2	1014.7	1708.5	3735.1	7441.2	11702.5	11780.5	10745.6	8187.1	4498.3	1856.0
77.5°	367.1	367.1	566.6	1402.1	3712.0	7386.3	7380.5	6597.1	4145.6	1523.5	433.6
80°	190.8	199.5	294.9	572.4	1607.4	3847.8	3992.4	3229.2	1575.6	641.8	127.2
82.5°	78.1	86.7	161.9	294.9	771.9	1350.1	1477.3	1266.2	685.1	448.1	57.8
85°	23.1	26.0	78.1	164.8	303.5	338.2	375.8	425.0	430.7	346.9	26.0
87.5°	2.9	2.9	31.8	54.9	66.5	72.3	83.8	83.8	219.7	242.8	14.5
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°	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6	1971.6
2.5°	1986.1	1971.6	1948.5	1896.4	1884.9	1847.3	1844.4	1809.7	1821.3	1798.2	1789.5
5°	1971.6	1939.8	1876.2	1835.7	1795.3	1769.2	1751.9	1737.4	1734.6	1723.0	1717.2
7.5°	1997.6	1954.3	1856.0	1792.4	1723.0	1699.9	1662.3	1659.4	1639.2	1618.9	1618.9
10°	2084.4	2006.3	1899.3	1792.4	1702.8	1627.6	1540.9	1477.3	1454.1	1402.1	1407.9
12.5°	2153.7	2084.4	1928.2	1818.4	1682.5	1512.0	1321.2	1173.7	1104.3	1037.8	1063.9
15°	2252.0	2150.9	1983.2	1824.2	1604.5	1309.6	997.4	832.6	769.0	754.5	751.6
17.5°	2359.0	2252.0	2052.6	1809.7	1445.5	1011.8	734.3	638.9	650.5	667.8	664.9
20°	2477.5	2347.4	2104.6	1760.6	1194.0	734.3	601.3	598.4	615.8	641.8	647.6
22.5°	2601.8	2489.1	2168.2	1613.1	890.4	589.7	578.2	578.2	589.7	621.5	615.8
25°	2740.6	2590.3	2200.0	1384.8	638.9	543.5	549.3	560.8	566.6	592.6	595.5
27.5°	2847.6	2703.0	2208.7	1110.1	520.4	503.0	517.5	531.9	540.6	560.8	569.5
30°	2945.9	2844.7	2162.4	826.8	477.0	468.3	474.1	494.3	511.7	529.0	529.0
32.5°	3070.2	2925.6	2055.4	586.9	451.0	436.5	433.6	442.3	462.5	482.8	482.8
35°	3197.4	3061.5	1884.9	471.2	427.9	407.6	396.1	387.4	396.1	410.5	422.1
37.5°	3382.4	3266.7	1671.0	433.6	410.5	381.6	358.5	338.2	323.8	320.9	329.6
40°	3645.5	3498.0	1396.3	407.6	390.3	355.6	320.9	286.2	254.4	234.2	237.1
42.5°	4044.4	3839.2	1098.6	393.2	375.8	326.7	277.5	228.4	187.9	167.7	167.7
45°	4613.9	4290.1	806.6	378.7	358.5	292.0	228.4	170.6	130.1	118.5	121.4
47.5°	5472.5	4833.6	578.2	355.6	335.3	254.4	179.2	121.4	95.4	89.6	92.5
50°	6594.2	5478.3	451.0	329.6	306.4	213.9	133.0	89.6	75.2	72.3	75.2
52.5°	7770.8	6128.8	396.1	306.4	263.1	170.6	98.3	72.3	63.6	60.7	63.6
55°	8776.9	6548.0	344.0	271.7	211.0	127.2	78.1	63.6	54.9	46.3	46.3
57.5°	9794.5	6759.0	271.7	225.5	156.1	95.4	66.5	54.9	46.3	37.6	34.7
60°	10621.3	6909.3	193.7	167.7	109.9	75.2	57.8	49.1	37.6	28.9	26.0
62.5°	11164.8	6478.6	141.7	127.2	80.9	63.6	49.1	40.5	28.9	20.2	20.2
65°	10895.9	5883.0	109.9	89.6	60.7	49.1	40.5	28.9	20.2	11.6	8.7
67.5°	9777.1	4793.2	89.6	66.5	46.3	37.6	31.8	23.1	11.6	2.9	2.9
70°	7293.8	3512.5	72.3	49.1	37.6	28.9	23.1	14.5	5.8	2.9	0.0
72.5°	3989.5	1922.5	57.8	40.5	28.9	23.1	17.3	11.6	5.8	0.0	0.0
75°	1318.3	511.7	43.4	28.9	17.3	14.5	11.6	8.7	2.9	0.0	0.0
77.5°	318.0	133.0	34.7	26.0	14.5	8.7	5.8	2.9	2.9	0.0	0.0
80°	98.3	54.9	26.0	17.3	11.6	8.7	2.9	0.0	0.0	0.0	0.0
82.5°	40.5	26.0	11.6	11.6	8.7	2.9	0.0	0.0	0.0	0.0	0.0
85°	20.2	14.5	8.7	5.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	14.5	5.8	2.9	2.9	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)