

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: P483603

Luminaire Tested: **IFLD-L-SA7B-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483603
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

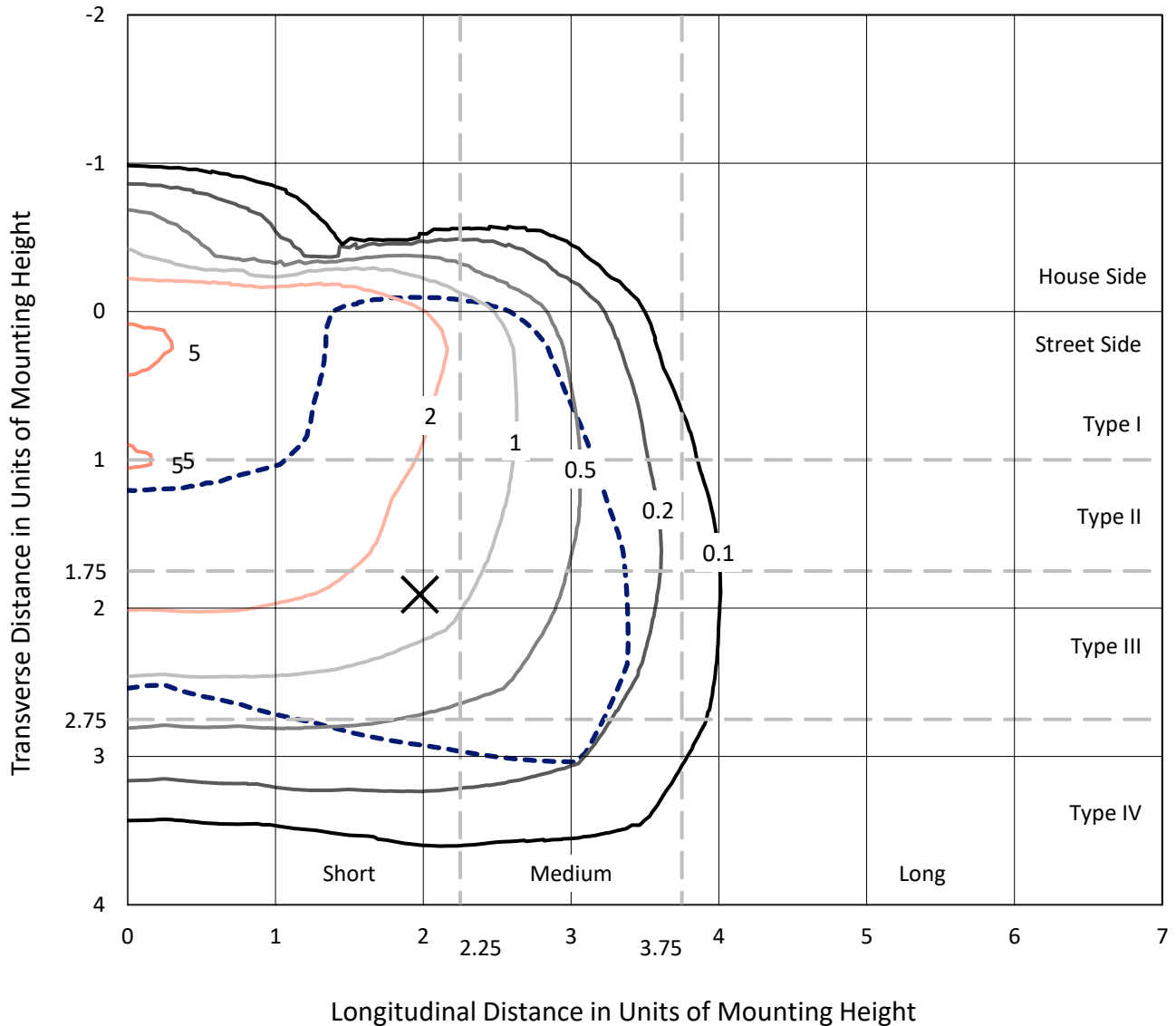
Lumens per Lamp: N/A
Luminaire Lumens: 25915.9 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 281
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

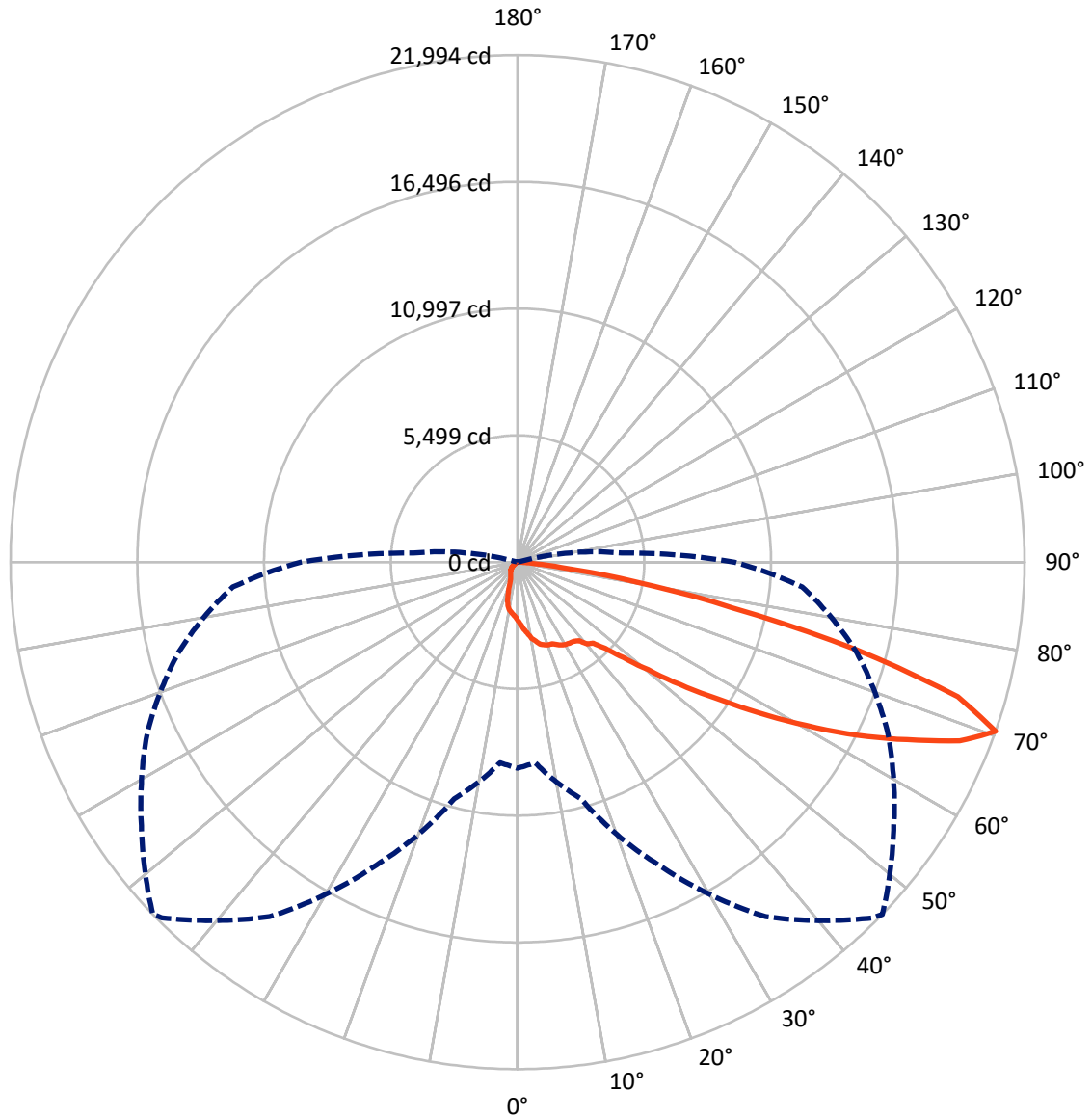
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2578.7	0.0	2578.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	23337.2	0.0	23337.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	25915.9	0.0	25915.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	1.0
10°-20°	766.1	3.0
20°-30°	1227.1	4.7
30°-40°	1751.5	6.8
40°-50°	3024.4	11.7
50°-60°	5790.5	22.3
60°-70°	8574.8	33.1
70°-80°	4247.0	16.4
80°-90°	280.6	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°	25915.9	100.0
0°-180°	25915.9	100.0

Coefficient of Utilization



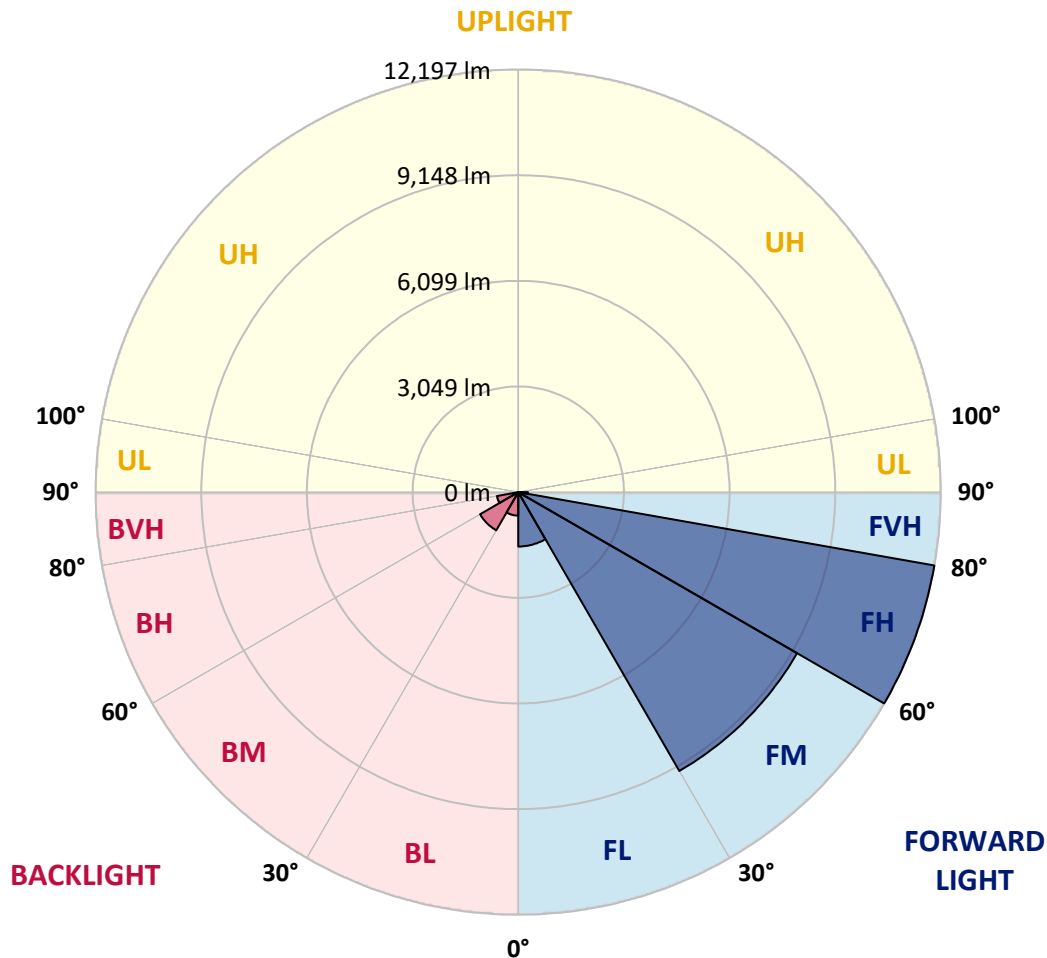
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.4	6.1			
FM (30°-60°)	9293.4	35.9			
FH (60°-80°)	12197.3	47.1			G5
FVH (80°-90°)	277.1	1.1			G3/500
BL (0°-30°)	677.5	2.6	B2/1000		
BM (30°-60°)	1273.1	4.9	B2/2500		
BH (60°-80°)	624.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1
2.5°	2838.8	2820.2	2790.3	2779.1	2749.3	2734.4	2712.0	2700.8	2659.8	2618.7	2592.6
5°	3185.8	3141.0	3155.9	3111.2	3014.2	2935.8	2932.1	2846.3	2753.0	2678.4	2577.7
7.5°	3536.4	3499.1	3443.2	3379.7	3271.6	3155.9	3122.3	3040.3	2909.7	2779.1	2644.9
10°	3801.3	3775.2	3726.7	3637.1	3487.9	3357.4	3361.1	3223.1	3085.0	2935.8	2753.0
12.5°	3965.4	3976.6	3905.7	3816.2	3685.6	3521.5	3517.8	3424.5	3267.8	3111.2	2894.8
15°	4129.6	4170.6	4062.4	3958.0	3790.1	3670.7	3693.1	3581.2	3428.2	3249.2	3010.4
17.5°	4155.7	4166.9	4144.5	3991.5	3868.4	3767.7	3771.4	3696.8	3581.2	3387.2	3182.0
20°	4110.9	4103.4	4077.3	3965.4	3883.3	3823.7	3827.4	3808.7	3745.3	3588.6	3308.9
22.5°	3980.3	3980.3	3946.8	3872.2	3834.9	3890.8	3846.0	3916.9	3849.8	3756.5	3525.2
25°	3875.9	3916.9	3898.3	3849.8	3864.7	3939.3	3961.7	4028.8	4017.6	3902.0	3674.4
27.5°	3987.8	3939.3	3950.5	3894.5	3950.5	4062.4	4073.6	4122.1	4118.4	4025.1	3808.7
30°	4062.4	4107.2	4021.4	3898.3	3958.0	4148.2	4140.7	4204.2	4234.0	4122.1	3935.6
32.5°	4301.2	4263.8	4193.0	4028.8	4036.3	4144.5	4178.0	4260.1	4278.8	4211.6	4058.7
35°	4789.8	4733.9	4424.3	4178.0	4140.7	4193.0	4215.4	4375.8	4409.3	4334.7	4189.2
37.5°	5543.4	5416.5	5043.5	4498.9	4331.0	4319.8	4319.8	4532.4	4659.3	4487.7	4383.2
40°	6621.5	6442.4	6039.5	5092.0	4580.9	4625.7	4670.5	4786.1	4771.2	4659.3	4636.9
42.5°	7994.2	7856.2	7419.8	6088.0	5058.4	4834.6	4797.3	4954.0	5189.0	5144.2	5129.3
45°	9139.5	9146.9	8867.2	7453.3	5882.8	5315.8	5341.9	5461.3	5856.7	5823.2	5819.4
47.5°	9975.1	9870.6	9829.6	8770.2	7084.0	6229.8	6192.5	6274.5	6789.3	7002.0	7099.0
50°	10736.1	10665.2	10568.2	10049.7	8527.7	7375.0	7337.7	7345.2	8132.3	8430.7	8669.4
52.5°	11679.9	11769.4	11448.6	11131.5	10396.6	8863.4	8822.4	8676.9	9654.3	10064.6	10348.1
55°	12843.8	12675.9	12314.1	12478.2	12183.5	10471.2	10396.6	10225.0	11388.9	11560.5	11858.9
57.5°	13101.2	12974.3	13347.4	13929.3	14212.8	12358.8	12329.0	12019.3	12847.5	12690.8	13533.9
60°	13742.8	13776.4	14294.9	15451.3	15943.7	14537.4	14391.9	13847.2	14261.3	14291.2	15190.2
62.5°	14403.1	14324.7	15484.9	16596.5	17353.8	16600.3	16551.8	15470.0	15940.0	15559.5	16749.5
65°	13918.1	14037.5	15697.5	17559.0	19181.7	18618.4	18577.4	17033.0	17290.4	16816.6	17383.7
67.5°	12194.7	11952.2	14276.2	17118.8	20121.8	20733.6	20688.8	18737.8	18051.4	16809.2	16066.8
70°	8938.0	8729.1	10624.2	14496.3	18775.1	21815.4	21994.4	19924.1	17741.8	15242.4	12396.1
72.5°	4379.5	4383.2	5953.7	9829.6	14854.5	19883.0	19972.6	18267.8	15242.4	11236.0	7020.6
75°	1294.4	1309.4	2204.7	4819.7	9602.0	15100.7	15201.4	13865.9	10564.5	5804.5	2394.9
77.5°	473.8	473.8	731.2	1809.2	4789.8	9531.2	9523.7	8512.8	5349.4	1965.9	559.6
80°	246.2	257.4	380.5	738.6	2074.1	4965.2	5151.7	4166.9	2033.1	828.1	164.1
82.5°	100.7	111.9	208.9	380.5	996.0	1742.1	1906.2	1633.9	884.1	578.2	74.6
85°	29.8	33.6	100.7	212.6	391.7	436.5	485.0	548.4	555.8	447.6	33.6
87.5°	3.7	3.7	41.0	70.9	85.8	93.3	108.2	108.2	283.5	313.4	18.7
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°	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1	2544.1
2.5°	2562.8	2544.1	2514.3	2447.1	2432.2	2383.7	2380.0	2335.2	2350.2	2320.3	2309.1
5°	2544.1	2503.1	2421.0	2368.8	2316.6	2283.0	2260.6	2242.0	2238.2	2223.3	2215.9
7.5°	2577.7	2521.8	2394.9	2312.8	2223.3	2193.5	2145.0	2141.2	2115.1	2089.0	2089.0
10°	2689.6	2588.9	2450.9	2312.8	2197.2	2100.2	1988.3	1906.2	1876.4	1809.2	1816.7
12.5°	2779.1	2689.6	2488.2	2346.4	2171.1	1951.0	1704.8	1514.5	1425.0	1339.2	1372.8
15°	2906.0	2775.4	2559.1	2353.9	2070.4	1689.9	1287.0	1074.4	992.3	973.6	969.9
17.5°	3044.0	2906.0	2648.6	2335.2	1865.2	1305.6	947.5	824.4	839.3	861.7	858.0
20°	3197.0	3029.1	2715.7	2271.8	1540.7	947.5	775.9	772.2	794.6	828.1	835.6
22.5°	3357.4	3211.9	2797.8	2081.6	1149.0	761.0	746.1	746.1	761.0	802.0	794.6
25°	3536.4	3342.4	2838.8	1786.9	824.4	701.3	708.8	723.7	731.2	764.7	768.5
27.5°	3674.4	3487.9	2850.0	1432.5	671.5	649.1	667.7	686.4	697.6	723.7	734.9
30°	3801.3	3670.7	2790.3	1066.9	615.5	604.3	611.8	637.9	660.3	682.7	682.7
32.5°	3961.7	3775.2	2652.3	757.3	581.9	563.3	559.6	570.8	596.9	623.0	623.0
35°	4125.8	3950.5	2432.2	608.1	552.1	526.0	511.1	499.9	511.1	529.7	544.6
37.5°	4364.6	4215.4	2156.2	559.6	529.7	492.4	462.6	436.5	417.8	414.1	425.3
40°	4704.0	4513.8	1801.8	526.0	503.6	458.8	414.1	369.3	328.3	302.2	305.9
42.5°	5218.8	4954.0	1417.6	507.3	485.0	421.5	358.1	294.7	242.5	216.4	216.4
45°	5953.7	5535.9	1040.8	488.7	462.6	376.8	294.7	220.1	167.9	152.9	156.7
47.5°	7061.6	6237.2	746.1	458.8	432.7	328.3	231.3	156.7	123.1	115.6	119.4
50°	8509.0	7069.1	581.9	425.3	395.4	276.0	171.6	115.6	97.0	93.3	97.0
52.5°	10027.3	7908.4	511.1	395.4	339.5	220.1	126.8	93.3	82.1	78.3	82.1
55°	11325.5	8449.4	443.9	350.7	272.3	164.1	100.7	82.1	70.9	59.7	59.7
57.5°	12638.6	8721.7	350.7	291.0	201.4	123.1	85.8	70.9	59.7	48.5	44.8
60°	13705.5	8915.7	249.9	216.4	141.8	97.0	74.6	63.4	48.5	37.3	33.6
62.5°	14406.8	8359.8	182.8	164.1	104.5	82.1	63.4	52.2	37.3	26.1	26.1
65°	14059.9	7591.4	141.8	115.6	78.3	63.4	52.2	37.3	26.1	14.9	11.2
67.5°	12616.2	6185.0	115.6	85.8	59.7	48.5	41.0	29.8	14.9	3.7	3.7
70°	9411.8	4532.4	93.3	63.4	48.5	37.3	29.8	18.7	7.5	3.7	0.0
72.5°	5148.0	2480.7	74.6	52.2	37.3	29.8	22.4	14.9	7.5	0.0	0.0
75°	1701.1	660.3	56.0	37.3	22.4	18.7	14.9	11.2	3.7	0.0	0.0
77.5°	410.3	171.6	44.8	33.6	18.7	11.2	7.5	3.7	3.7	0.0	0.0
80°	126.8	70.9	33.6	22.4	14.9	11.2	3.7	0.0	0.0	0.0	0.0
82.5°	52.2	33.6	14.9	14.9	11.2	3.7	0.0	0.0	0.0	0.0	0.0
85°	26.1	18.7	11.2	7.5	7.5	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	7.5	3.7	3.7	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)