

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: P483607

Luminaire Tested: **IFLD-L-SA8A-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483607
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

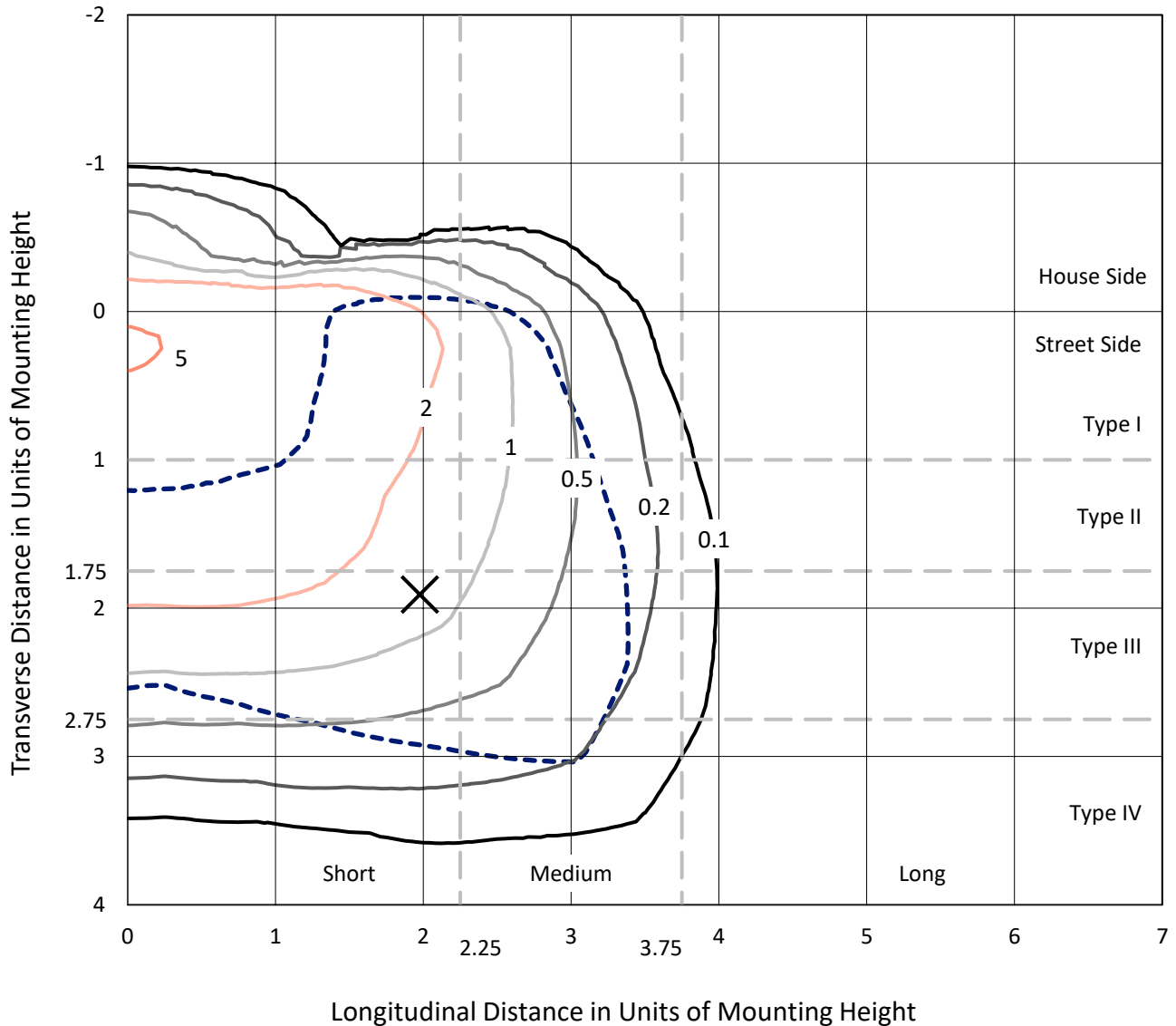
Lumens per Lamp: N/A
Luminaire Lumens: 24929.2 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (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

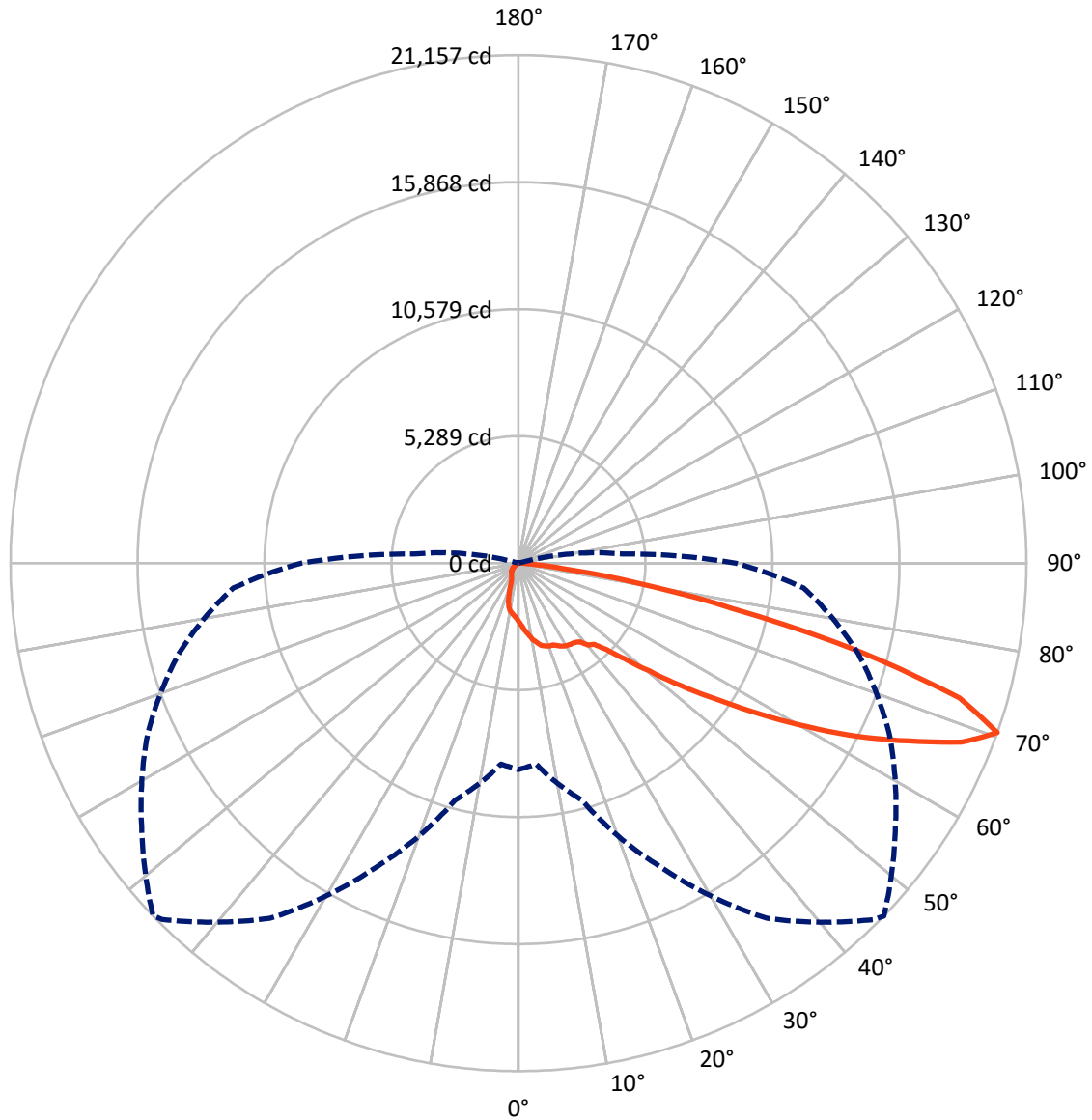
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2480.5	0.0	2480.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	22448.7	0.0	22448.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	24929.2	0.0	24929.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	1.0
10°-20°	736.9	3.0
20°-30°	1180.4	4.7
30°-40°	1684.8	6.8
40°-50°	2909.3	11.7
50°-60°	5570.1	22.3
60°-70°	8248.4	33.1
70°-80°	4085.3	16.4
80°-90°	270.0	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°	24929.2	100.0
0°-180°	24929.2	100.0

Coefficient of Utilization



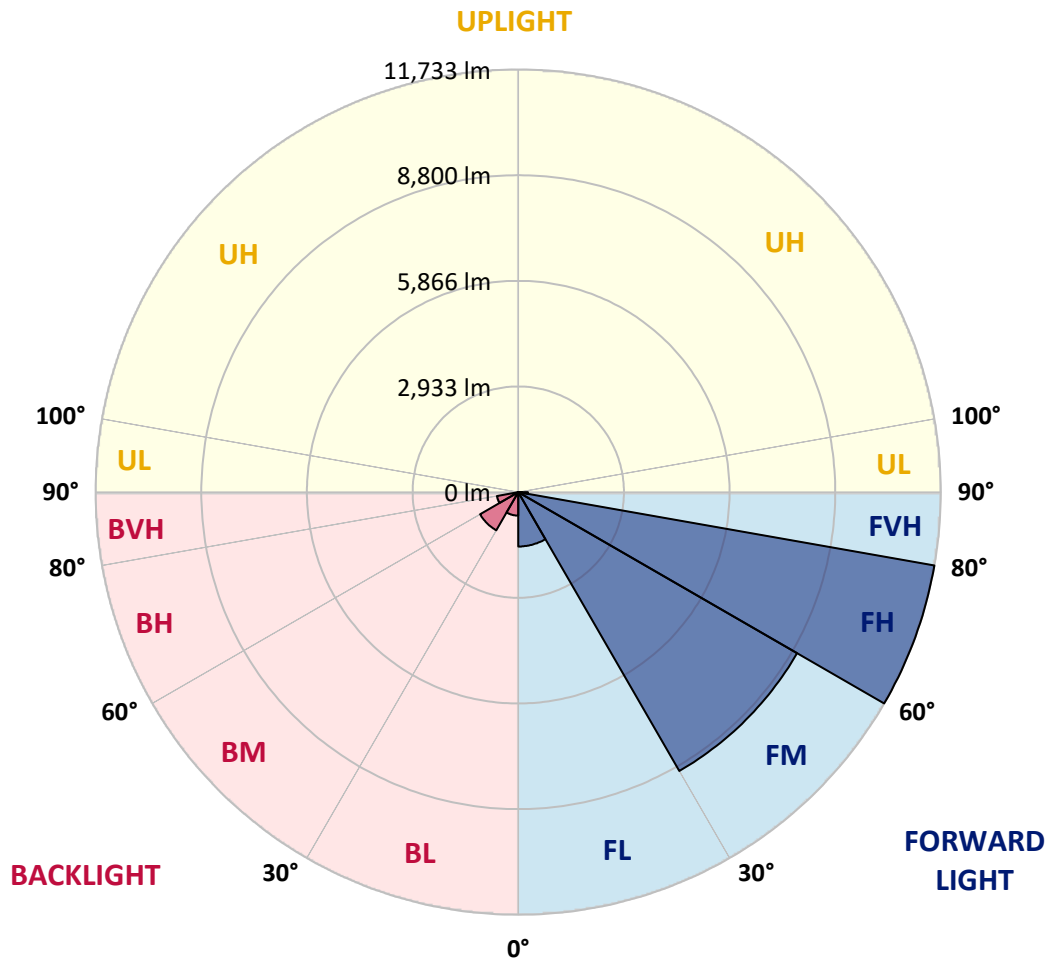
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.6	6.1			
FM (30°-60°)	8939.6	35.9			
FH (60°-80°)	11733.0	47.1			G4/12000
FVH (80°-90°)	266.5	1.1			G3/500
BL (0°-30°)	651.7	2.6	B2/1000		
BM (30°-60°)	1224.6	4.9	B2/2500		
BH (60°-80°)	600.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3
2.5°	2730.8	2712.8	2684.1	2673.3	2644.6	2630.3	2608.7	2598.0	2558.5	2519.0	2493.9
5°	3064.5	3021.4	3035.8	2992.7	2899.4	2824.1	2820.5	2737.9	2648.2	2576.5	2479.6
7.5°	3401.8	3365.9	3312.1	3251.1	3147.0	3035.8	3003.5	2924.5	2798.9	2673.3	2544.2
10°	3656.6	3631.4	3584.8	3498.7	3355.1	3229.5	3233.1	3100.4	2967.6	2824.1	2648.2
12.5°	3814.4	3825.2	3757.0	3670.9	3545.3	3387.4	3383.8	3294.1	3143.4	2992.7	2784.6
15°	3972.3	4011.8	3907.7	3807.3	3645.8	3531.0	3552.5	3444.8	3297.7	3125.5	2895.8
17.5°	3997.4	4008.2	3986.7	3839.6	3721.1	3624.3	3627.8	3556.1	3444.8	3258.2	3060.9
20°	3954.4	3947.2	3922.1	3814.4	3735.5	3678.1	3681.7	3663.7	3602.7	3452.0	3182.9
22.5°	3828.8	3828.8	3796.5	3724.7	3688.8	3742.7	3699.6	3767.8	3703.2	3613.5	3391.0
25°	3728.3	3767.8	3749.9	3703.2	3717.6	3789.3	3810.9	3875.4	3864.7	3753.4	3534.5
27.5°	3836.0	3789.3	3800.1	3746.3	3800.1	3907.7	3918.5	3965.2	3961.6	3871.9	3663.7
30°	3907.7	3950.8	3868.3	3749.9	3807.3	3990.3	3983.1	4044.1	4072.8	3965.2	3785.7
32.5°	4137.4	4101.5	4033.3	3875.4	3882.6	3986.7	4019.0	4097.9	4115.9	4051.3	3904.2
35°	4607.5	4553.6	4255.8	4019.0	3983.1	4033.3	4054.9	4209.2	4241.5	4169.7	4029.7
37.5°	5332.3	5210.3	4851.5	4327.6	4166.1	4155.3	4155.3	4359.9	4481.9	4316.8	4216.3
40°	6369.4	6197.1	5809.6	4898.1	4406.5	4449.6	4492.6	4603.9	4589.5	4481.9	4460.3
42.5°	7689.9	7557.1	7137.3	5856.2	4865.8	4650.5	4614.6	4765.4	4991.4	4948.4	4934.0
45°	8791.5	8798.7	8529.6	7169.6	5658.9	5113.4	5138.6	5253.4	5633.7	5601.5	5597.9
47.5°	9595.3	9494.8	9455.4	8436.3	6814.3	5992.6	5956.7	6035.6	6530.8	6735.4	6828.7
50°	10327.3	10259.2	10165.9	9667.1	8203.0	7094.2	7058.3	7065.5	7822.7	8109.7	8339.4
52.5°	11235.2	11321.3	11012.7	10707.7	10000.8	8526.0	8486.5	8346.6	9286.7	9681.4	9954.1
55°	12354.8	12193.3	11845.2	12003.1	11719.6	10072.6	10000.8	9835.7	10955.3	11120.4	11407.4
57.5°	12602.4	12480.4	12839.2	13399.0	13671.7	11888.3	11859.6	11561.7	12358.4	12207.6	13018.6
60°	13219.6	13251.9	13750.6	14863.0	15336.7	13983.9	13843.9	13320.0	13718.4	13747.1	14611.9
62.5°	13854.7	13779.4	14895.3	15964.7	16693.1	15968.3	15921.6	14881.0	15333.1	14967.1	16111.8
65°	13388.2	13503.1	15099.9	16890.5	18451.4	17909.6	17870.1	16384.5	16632.1	16176.4	16721.8
67.5°	11730.4	11497.2	13732.7	16467.0	19355.7	19944.2	19901.1	18024.4	17364.1	16169.2	15455.1
70°	8597.7	8396.8	10219.7	13944.4	18060.3	20984.8	21157.1	19165.5	17066.3	14662.1	11924.2
72.5°	4212.8	4216.3	5727.0	9455.4	14288.9	19126.0	19212.2	17572.3	14662.1	10808.2	6753.3
75°	1245.2	1259.5	2120.7	4636.2	9236.5	14525.7	14622.6	13338.0	10162.3	5583.5	2303.7
77.5°	455.7	455.7	703.3	1740.4	4607.5	9168.3	9161.1	8188.7	5145.7	1891.1	538.3
80°	236.8	247.6	366.0	710.5	1995.1	4776.1	4955.5	4008.2	1955.7	796.6	157.9
82.5°	96.9	107.7	200.9	366.0	958.1	1675.8	1833.7	1571.7	850.4	556.2	71.8
85°	28.7	32.3	96.9	204.5	376.8	419.8	466.5	527.5	534.7	430.6	32.3
87.5°	3.6	3.6	39.5	68.2	82.5	89.7	104.1	104.1	272.7	301.4	17.9
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°	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3	2447.3
2.5°	2465.2	2447.3	2418.6	2354.0	2339.6	2293.0	2289.4	2246.3	2260.7	2232.0	2221.2
5°	2447.3	2407.8	2328.9	2278.6	2228.4	2196.1	2174.6	2156.6	2153.0	2138.7	2131.5
7.5°	2479.6	2425.7	2303.7	2224.8	2138.7	2110.0	2063.3	2059.7	2034.6	2009.5	2009.5
10°	2587.2	2490.3	2357.6	2224.8	2113.6	2020.3	1912.6	1833.7	1805.0	1740.4	1747.5
12.5°	2673.3	2587.2	2393.4	2257.1	2088.4	1876.7	1639.9	1456.9	1370.8	1288.2	1320.5
15°	2795.3	2669.8	2461.6	2264.3	1991.5	1625.5	1238.0	1033.5	954.5	936.6	933.0
17.5°	2928.1	2795.3	2547.7	2246.3	1794.2	1255.9	911.4	793.0	807.4	828.9	825.3
20°	3075.2	2913.8	2612.3	2185.3	1482.0	911.4	746.4	742.8	764.3	796.6	803.8
22.5°	3229.5	3089.6	2691.3	2002.3	1105.2	732.0	717.7	717.7	732.0	771.5	764.3
25°	3401.8	3215.2	2730.8	1718.8	793.0	674.6	681.8	696.1	703.3	735.6	739.2
27.5°	3534.5	3355.1	2741.5	1377.9	645.9	624.4	642.3	660.3	671.0	696.1	706.9
30°	3656.6	3531.0	2684.1	1026.3	592.1	581.3	588.5	613.6	635.1	656.7	656.7
32.5°	3810.9	3631.4	2551.3	728.4	559.8	541.8	538.3	549.0	574.1	599.3	599.3
35°	3968.7	3800.1	2339.6	584.9	531.1	506.0	491.6	480.8	491.6	509.5	523.9
37.5°	4198.4	4054.9	2074.1	538.3	509.5	473.7	445.0	419.8	401.9	398.3	409.1
40°	4524.9	4341.9	1733.2	506.0	484.4	441.4	398.3	355.2	315.8	290.7	294.2
42.5°	5020.1	4765.4	1363.6	488.0	466.5	405.5	344.5	283.5	233.2	208.1	208.1
45°	5727.0	5325.1	1001.2	470.1	445.0	362.4	283.5	211.7	161.5	147.1	150.7
47.5°	6792.8	5999.8	717.7	441.4	416.3	315.8	222.5	150.7	118.4	111.2	114.8
50°	8185.1	6800.0	559.8	409.1	380.4	265.5	165.1	111.2	93.3	89.7	93.3
52.5°	9645.5	7607.4	491.6	380.4	326.5	211.7	122.0	89.7	78.9	75.4	78.9
55°	10894.3	8127.7	427.0	337.3	262.0	157.9	96.9	78.9	68.2	57.4	57.4
57.5°	12157.4	8389.6	337.3	279.9	193.8	118.4	82.5	68.2	57.4	46.6	43.1
60°	13183.7	8576.2	240.4	208.1	136.4	93.3	71.8	61.0	46.6	35.9	32.3
62.5°	13858.3	8041.5	175.8	157.9	100.5	78.9	61.0	50.2	35.9	25.1	25.1
65°	13524.6	7302.3	136.4	111.2	75.4	61.0	50.2	35.9	25.1	14.4	10.8
67.5°	12135.9	5949.5	111.2	82.5	57.4	46.6	39.5	28.7	14.4	3.6	3.6
70°	9053.5	4359.9	89.7	61.0	46.6	35.9	28.7	17.9	7.2	3.6	0.0
72.5°	4952.0	2386.3	71.8	50.2	35.9	28.7	21.5	14.4	7.2	0.0	0.0
75°	1636.3	635.1	53.8	35.9	21.5	17.9	14.4	10.8	3.6	0.0	0.0
77.5°	394.7	165.1	43.1	32.3	17.9	10.8	7.2	3.6	3.6	0.0	0.0
80°	122.0	68.2	32.3	21.5	14.4	10.8	3.6	0.0	0.0	0.0	0.0
82.5°	50.2	32.3	14.4	14.4	10.8	3.6	0.0	0.0	0.0	0.0	0.0
85°	25.1	17.9	10.8	7.2	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	7.2	3.6	3.6	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)