

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: P483493

Luminaire Tested: **IFLD-L-SA8D-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483493
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

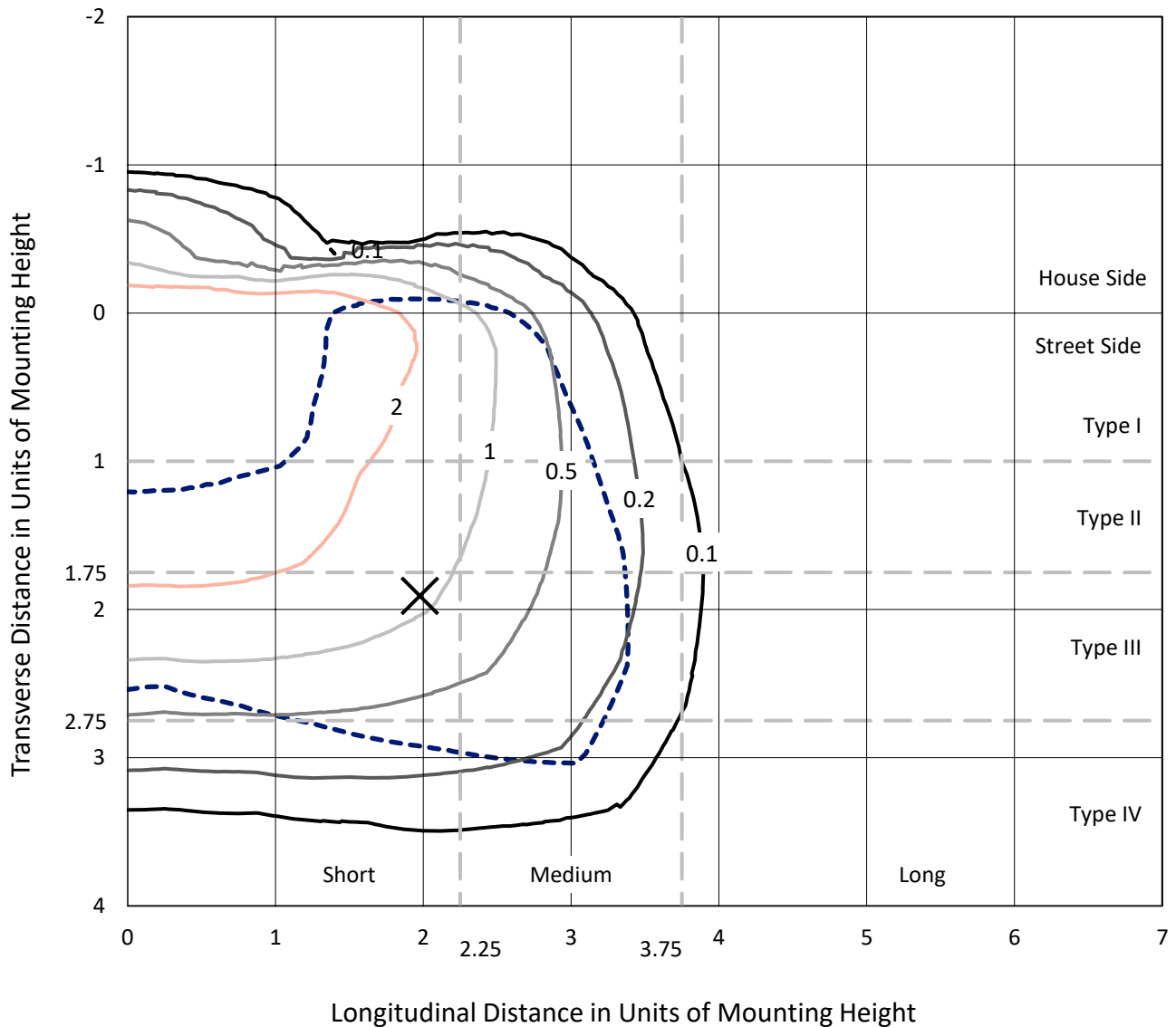
Lumens per Lamp: N/A
Luminaire Lumens: 30298.3 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 488.3
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

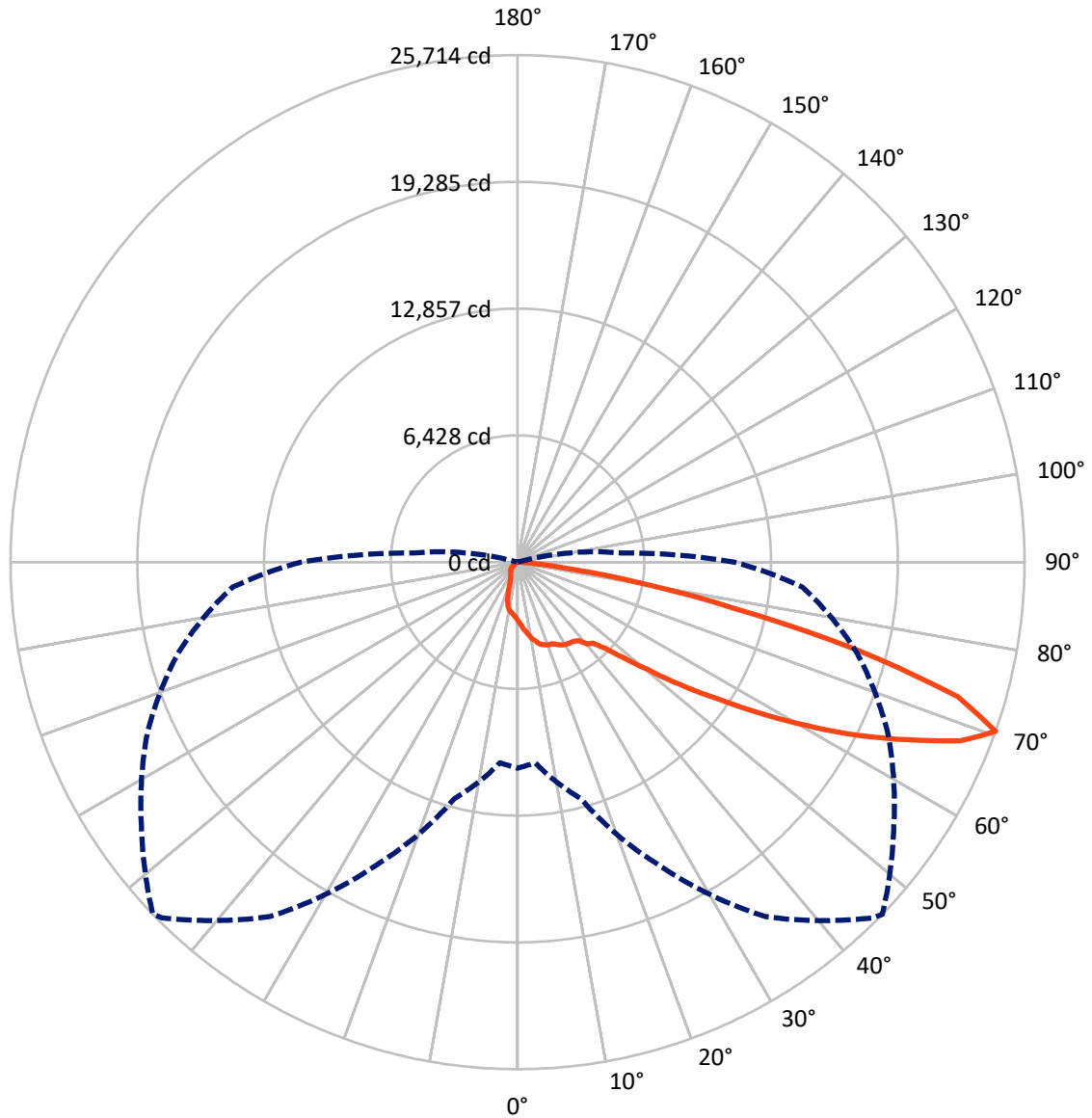
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	3014.8	0.0	3014.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	27283.5	0.0	27283.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	30298.3	0.0	30298.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	1.0
10°-20°	895.6	3.0
20°-30°	1434.6	4.7
30°-40°	2047.7	6.8
40°-50°	3535.9	11.7
50°-60°	6769.7	22.3
60°-70°	10024.9	33.1
70°-80°	4965.2	16.4
80°-90°	328.1	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°	30298.3	100.0
0°-180°	30298.3	100.0

Coefficient of Utilization

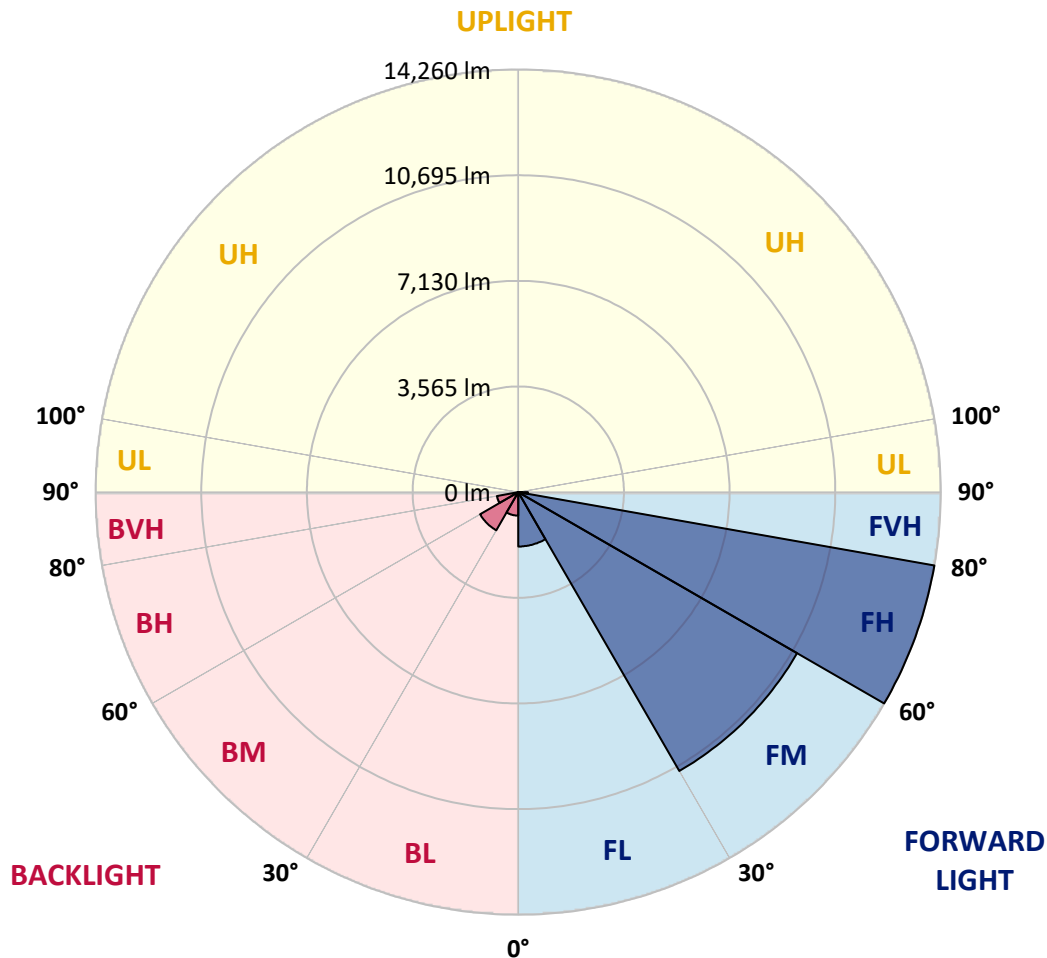


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1834.8	6.1			
FM (30°-60°)	10864.9	35.9			
FH (60°-80°)	14259.9	47.1			G5
FVH (80°-90°)	323.9	1.1			G3/500
BL (0°-30°)	792.0	2.6	B2/1000		
BM (30°-60°)	1488.4	4.9	B2/2500		
BH (60°-80°)	730.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3
2.5°	3318.9	3297.1	3262.2	3249.1	3214.2	3196.8	3170.6	3157.5	3109.5	3061.6	3031.0
5°	3724.5	3672.1	3689.6	3637.3	3523.9	3432.3	3427.9	3327.6	3218.6	3131.4	3013.6
7.5°	4134.4	4090.8	4025.4	3951.3	3824.8	3689.6	3650.3	3554.4	3401.7	3249.1	3092.1
10°	4444.1	4413.5	4356.9	4252.2	4077.7	3925.1	3929.5	3768.1	3606.7	3432.3	3218.6
12.5°	4636.0	4649.1	4566.2	4461.5	4308.9	4117.0	4112.6	4003.6	3820.4	3637.3	3384.3
15°	4827.9	4875.8	4749.4	4627.2	4431.0	4291.4	4317.6	4186.8	4008.0	3798.6	3519.5
17.5°	4858.4	4871.5	4845.3	4666.5	4522.6	4404.8	4409.2	4322.0	4186.8	3960.0	3720.1
20°	4806.1	4797.3	4766.8	4636.0	4540.0	4470.2	4474.6	4452.8	4378.7	4195.5	3868.4
22.5°	4653.4	4653.4	4614.2	4526.9	4483.3	4548.7	4496.4	4579.3	4500.8	4391.7	4121.3
25°	4531.3	4579.3	4557.5	4500.8	4518.2	4605.4	4631.6	4710.1	4697.0	4561.8	4295.8
27.5°	4662.1	4605.4	4618.5	4553.1	4618.5	4749.4	4762.4	4819.1	4814.8	4705.7	4452.8
30°	4749.4	4801.7	4701.4	4557.5	4627.2	4849.7	4840.9	4915.1	4950.0	4819.1	4601.1
32.5°	5028.5	4984.9	4902.0	4710.1	4718.8	4845.3	4884.6	4980.5	5002.3	4923.8	4745.0
35°	5599.8	5534.4	5172.4	4884.6	4840.9	4902.0	4928.2	5115.7	5155.0	5067.7	4897.6
37.5°	6480.8	6332.5	5896.4	5259.6	5063.4	5050.3	5050.3	5298.9	5447.2	5246.5	5124.4
40°	7741.2	7531.8	7060.8	5953.1	5355.6	5407.9	5460.2	5595.4	5578.0	5447.2	5421.0
42.5°	9346.1	9184.7	8674.5	7117.5	5913.8	5652.1	5608.5	5791.7	6066.4	6014.1	5996.7
45°	10685.0	10693.7	10366.6	8713.7	6877.6	6214.7	6245.3	6384.8	6847.1	6807.9	6803.5
47.5°	11661.9	11539.8	11491.8	10253.2	8281.9	7283.2	7239.6	7335.6	7937.4	8186.0	8299.4
50°	12551.6	12468.7	12355.3	11749.1	9969.7	8622.1	8578.5	8587.2	9507.4	9856.3	10135.5
52.5°	13655.0	13759.6	13384.6	13013.9	12154.7	10362.2	10314.3	10144.2	11286.8	11766.6	12098.0
55°	15015.7	14819.4	14396.4	14588.3	14243.7	12241.9	12154.7	11954.1	13314.8	13515.4	13864.3
57.5°	15316.6	15168.3	15604.4	16284.8	16616.2	14448.7	14413.8	14051.8	15020.0	14836.8	15822.5
60°	16066.7	16106.0	16712.2	18064.1	18639.8	16995.6	16825.6	16188.8	16672.9	16707.8	17758.9
62.5°	16838.6	16747.1	18103.4	19403.0	20288.4	19407.4	19350.7	18086.0	18635.5	18190.6	19581.8
65°	16271.7	16411.2	18352.0	20528.2	22425.4	21766.8	21718.8	19913.3	20214.2	19660.3	20323.3
67.5°	14256.8	13973.3	16690.4	20013.6	23524.4	24239.6	24187.3	21906.4	21103.9	19651.6	18783.7
70°	10449.5	10205.2	12420.7	16947.7	21950.0	25504.4	25713.7	23293.2	20741.9	17819.9	14492.3
72.5°	5120.1	5124.4	6960.5	11491.8	17366.4	23245.3	23349.9	21356.9	17819.9	13136.0	8207.8
75°	1513.3	1530.8	2577.5	5634.7	11225.8	17654.2	17771.9	16210.6	12351.0	6786.0	2799.9
77.5°	553.9	553.9	854.8	2115.2	5599.8	11142.9	11134.2	9952.3	6254.0	2298.4	654.2
80°	287.8	300.9	444.8	863.5	2424.8	5804.8	6022.8	4871.5	2376.9	968.2	191.9
82.5°	117.8	130.8	244.2	444.8	1164.4	2036.7	2228.6	1910.2	1033.6	676.0	87.2
85°	34.9	39.3	117.8	248.6	457.9	510.3	567.0	641.1	649.8	523.3	39.3
87.5°	4.4	4.4	48.0	82.9	100.3	109.0	126.5	126.5	331.5	366.3	21.8
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°	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3	2974.3
2.5°	2996.2	2974.3	2939.5	2861.0	2843.5	2786.8	2782.5	2730.1	2747.6	2712.7	2699.6
5°	2974.3	2926.4	2830.4	2769.4	2708.3	2669.1	2642.9	2621.1	2616.7	2599.3	2590.6
7.5°	3013.6	2948.2	2799.9	2704.0	2599.3	2564.4	2507.7	2503.3	2472.8	2442.3	2442.3
10°	3144.4	3026.7	2865.3	2704.0	2568.8	2455.4	2324.5	2228.6	2193.7	2115.2	2123.9
12.5°	3249.1	3144.4	2908.9	2743.2	2538.2	2280.9	1993.1	1770.7	1666.0	1565.7	1604.9
15°	3397.4	3244.7	2991.8	2751.9	2420.5	1975.6	1504.6	1256.0	1160.1	1138.3	1133.9
17.5°	3558.7	3397.4	3096.5	2730.1	2180.6	1526.4	1107.7	963.8	981.3	1007.4	1003.1
20°	3737.6	3541.3	3175.0	2656.0	1801.2	1107.7	907.1	902.8	928.9	968.2	976.9
22.5°	3925.1	3755.0	3270.9	2433.6	1343.3	889.7	872.2	872.2	889.7	937.7	928.9
25°	4134.4	3907.6	3318.9	2089.0	963.8	819.9	828.6	846.1	854.8	894.0	898.4
27.5°	4295.8	4077.7	3332.0	1674.7	785.0	758.9	780.7	802.5	815.5	846.1	859.2
30°	4444.1	4291.4	3262.2	1247.3	719.6	706.5	715.2	745.8	771.9	798.1	798.1
32.5°	4631.6	4413.5	3100.8	885.3	680.3	658.5	654.2	667.3	697.8	728.3	728.3
35°	4823.5	4618.5	2843.5	710.9	645.5	614.9	597.5	584.4	597.5	619.3	636.7
37.5°	5102.6	4928.2	2520.8	654.2	619.3	575.7	540.8	510.3	488.5	484.1	497.2
40°	5499.5	5277.1	2106.5	614.9	588.8	536.4	484.1	431.8	383.8	353.3	357.6
42.5°	6101.3	5791.7	1657.3	593.1	567.0	492.8	418.7	344.5	283.5	253.0	253.0
45°	6960.5	6472.0	1216.8	571.3	540.8	440.5	344.5	257.3	196.3	178.8	183.2
47.5°	8255.8	7291.9	872.2	536.4	505.9	383.8	270.4	183.2	143.9	135.2	139.6
50°	9947.9	8264.5	680.3	497.2	462.3	322.7	200.6	135.2	113.4	109.0	113.4
52.5°	11722.9	9245.8	597.5	462.3	396.9	257.3	148.3	109.0	95.9	91.6	95.9
55°	13240.6	9878.1	519.0	410.0	318.4	191.9	117.8	95.9	82.9	69.8	69.8
57.5°	14775.8	10196.5	410.0	340.2	235.5	143.9	100.3	82.9	69.8	56.7	52.3
60°	16023.1	10423.3	292.2	253.0	165.7	113.4	87.2	74.1	56.7	43.6	39.3
62.5°	16843.0	9773.5	213.7	191.9	122.1	95.9	74.1	61.1	43.6	30.5	30.5
65°	16437.4	8875.1	165.7	135.2	91.6	74.1	61.1	43.6	30.5	17.4	13.1
67.5°	14749.6	7230.9	135.2	100.3	69.8	56.7	48.0	34.9	17.4	4.4	4.4
70°	11003.3	5298.9	109.0	74.1	56.7	43.6	34.9	21.8	8.7	4.4	0.0
72.5°	6018.5	2900.2	87.2	61.1	43.6	34.9	26.2	17.4	8.7	0.0	0.0
75°	1988.7	771.9	65.4	43.6	26.2	21.8	17.4	13.1	4.4	0.0	0.0
77.5°	479.7	200.6	52.3	39.3	21.8	13.1	8.7	4.4	4.4	0.0	0.0
80°	148.3	82.9	39.3	26.2	17.4	13.1	4.4	0.0	0.0	0.0	0.0
82.5°	61.1	39.3	17.4	17.4	13.1	4.4	0.0	0.0	0.0	0.0	0.0
85°	30.5	21.8	13.1	8.7	8.7	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	21.8	8.7	4.4	4.4	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)