

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: P483633

Luminaire Tested: **IFLD-S-SA6C-740-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483633
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

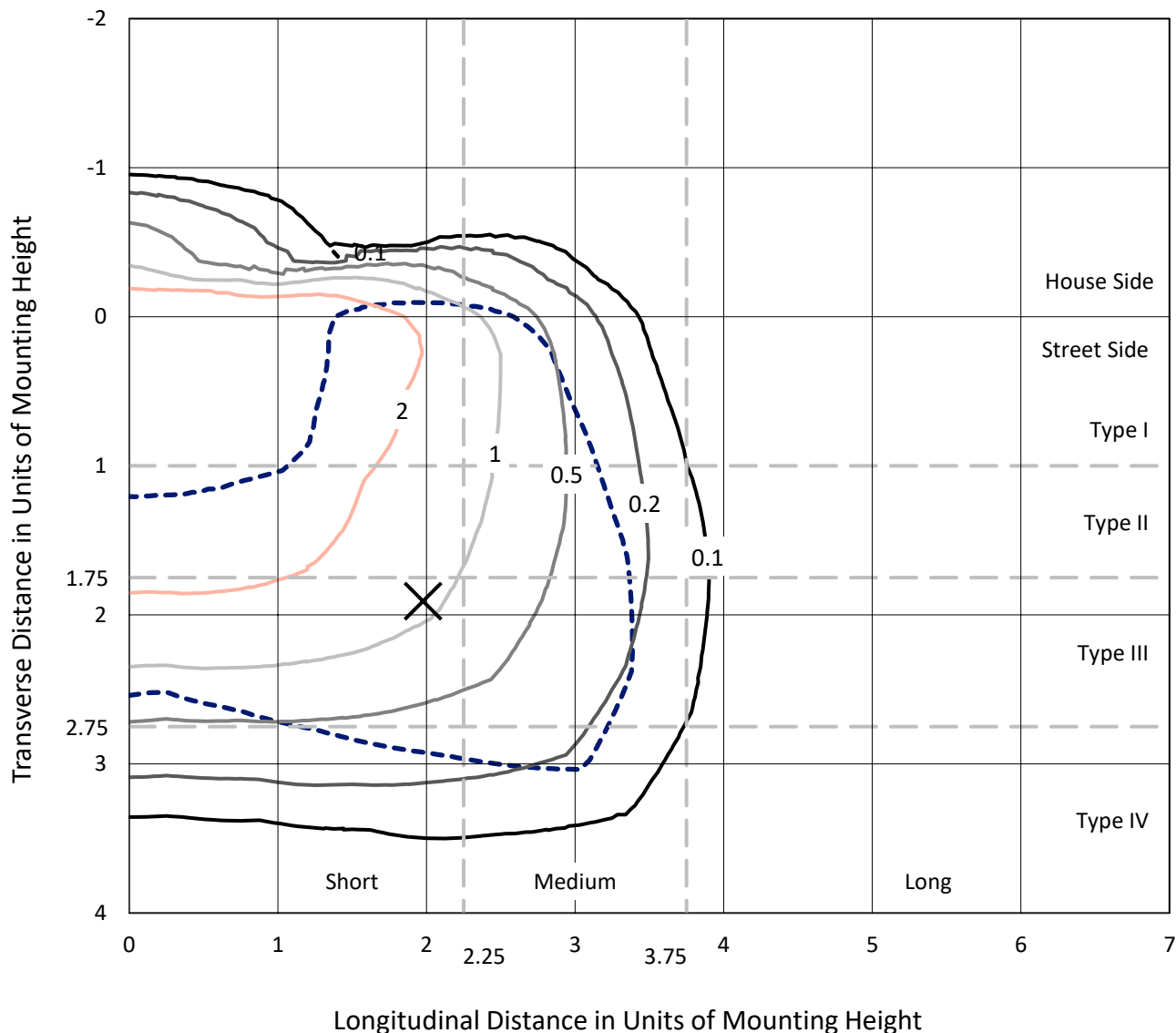
Lumens per Lamp: N/A
Luminaire Lumens: 30658.4 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 321.5
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

REPORT NUMBER: P483633
 CATALOG NUMBER: IFLD-S-SA6C-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

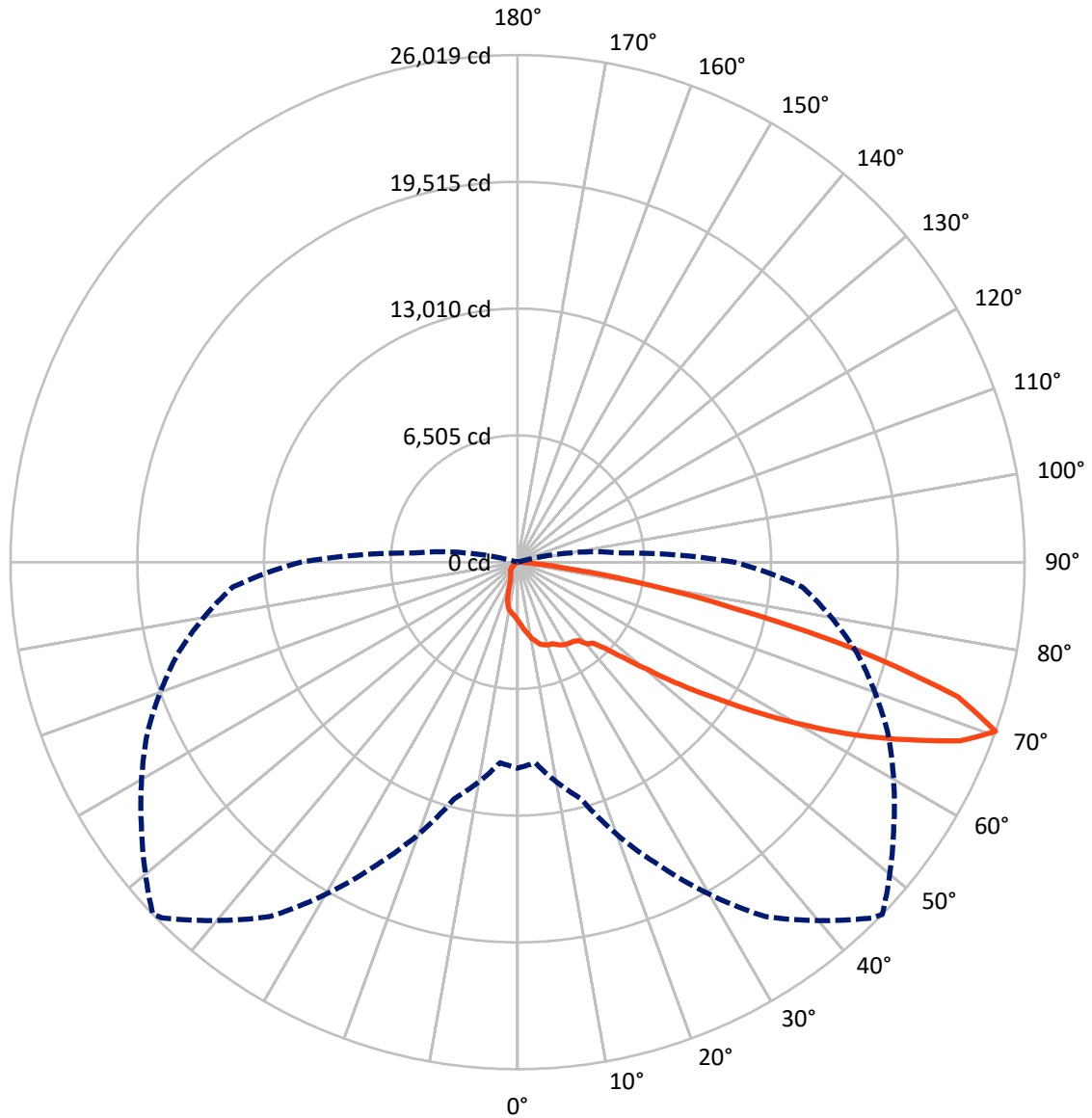
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P483633
CATALOG NUMBER: IFLD-S-SA6C-740-U-T4W-HSS

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	3050.6	0.0	3050.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	27607.8	0.0	27607.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	30658.4	0.0	30658.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	1.0
10°-20°	906.3	3.0
20°-30°	1451.7	4.7
30°-40°	2072.1	6.8
40°-50°	3577.9	11.7
50°-60°	6850.2	22.3
60°-70°	10144.0	33.1
70°-80°	5024.2	16.4
80°-90°	332.0	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°	30658.4	100.0
0°-180°	30658.4	100.0

Coefficient of Utilization

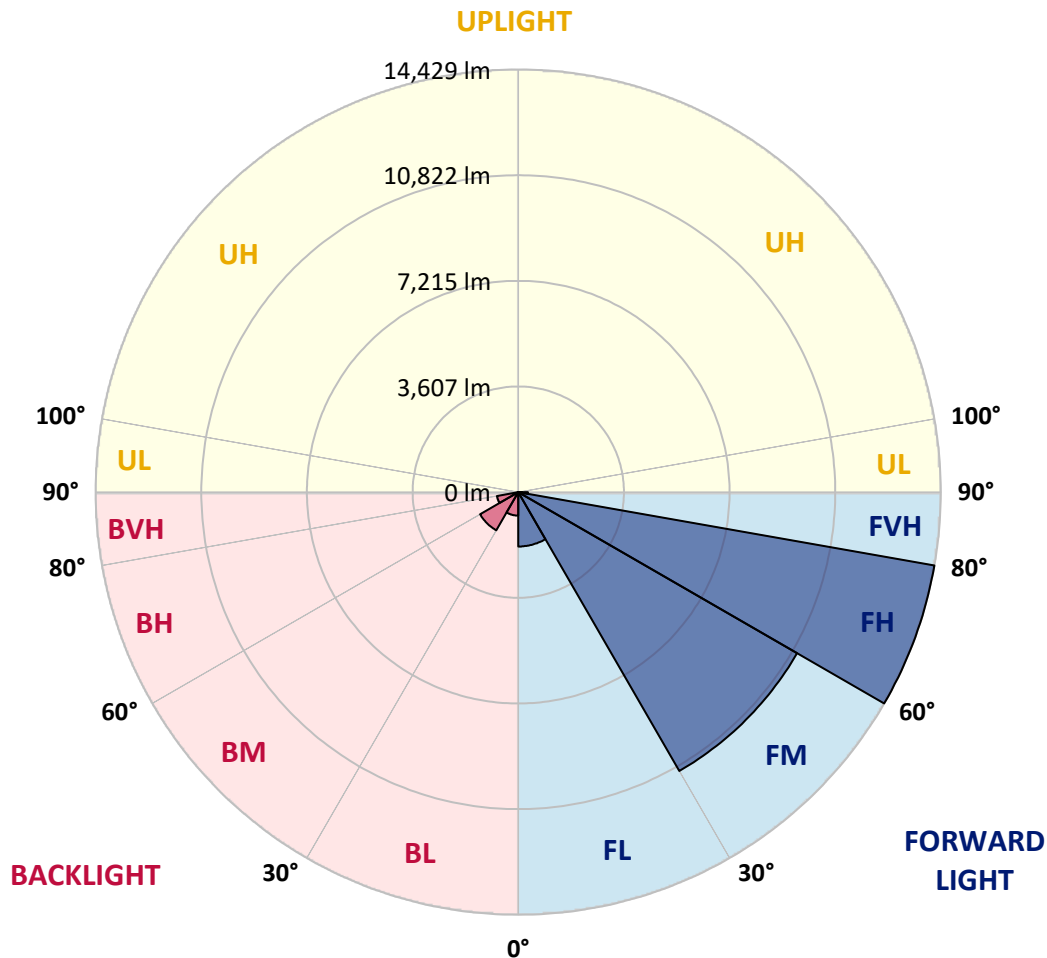


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.6	6.1			
FM (30°-60°)	10994.0	35.9			
FH (60°-80°)	14429.4	47.1			G5
FVH (80°-90°)	327.8	1.1			G3/500
BL (0°-30°)	801.4	2.6	B2/1000		
BM (30°-60°)	1506.1	4.9	B2/2500		
BH (60°-80°)	738.8	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





REPORT NUMBER: P483633

CATALOG NUMBER: IFLD-S-SA6C-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7
2.5°	3358.3	3336.3	3301.0	3287.7	3252.4	3234.8	3208.3	3195.0	3146.5	3098.0	3067.1
5°	3768.7	3715.8	3733.4	3680.5	3565.7	3473.1	3468.7	3367.2	3256.8	3168.6	3049.4
7.5°	4183.6	4139.4	4073.2	3998.2	3870.2	3733.4	3693.7	3596.6	3442.2	3287.7	3128.9
10°	4496.9	4466.0	4408.6	4302.7	4126.2	3971.7	3976.2	3812.9	3649.6	3473.1	3256.8
12.5°	4691.1	4704.3	4620.5	4514.6	4360.1	4165.9	4161.5	4051.2	3865.8	3680.5	3424.5
15°	4885.2	4933.8	4805.8	4682.2	4483.7	4342.4	4368.9	4236.5	4055.6	3843.8	3561.3
17.5°	4916.1	4929.4	4902.9	4722.0	4576.3	4457.2	4461.6	4373.3	4236.5	4007.1	3764.3
20°	4863.2	4854.4	4823.5	4691.1	4594.0	4523.4	4527.8	4505.7	4430.7	4245.4	3914.4
22.5°	4708.7	4708.7	4669.0	4580.7	4536.6	4602.8	4549.9	4633.7	4554.3	4443.9	4170.3
25°	4585.2	4633.7	4611.6	4554.3	4571.9	4660.2	4686.7	4766.1	4752.9	4616.1	4346.9
27.5°	4717.6	4660.2	4673.4	4607.2	4673.4	4805.8	4819.1	4876.4	4872.0	4761.7	4505.7
30°	4805.8	4858.8	4757.3	4611.6	4682.2	4907.3	4898.5	4973.5	5008.8	4876.4	4655.8
32.5°	5088.2	5044.1	4960.3	4766.1	4774.9	4902.9	4942.6	5039.7	5061.8	4982.3	4801.4
35°	5666.4	5600.2	5233.9	4942.6	4898.5	4960.3	4986.7	5176.5	5216.2	5128.0	4955.9
37.5°	6557.8	6407.8	5966.4	5322.1	5123.6	5110.3	5110.3	5361.9	5511.9	5308.9	5185.3
40°	7833.2	7621.3	7144.7	6023.8	5419.2	5472.2	5525.1	5661.9	5644.3	5511.9	5485.4
42.5°	9457.2	9293.9	8777.6	7202.1	5984.1	5719.3	5675.2	5860.5	6138.6	6085.6	6067.9
45°	10812.0	10820.8	10489.8	8817.3	6959.4	6288.6	6319.5	6460.7	6928.5	6888.8	6884.4
47.5°	11800.5	11676.9	11628.4	10375.1	8380.4	7369.8	7325.7	7422.8	8031.8	8283.3	8398.0
50°	12700.8	12616.9	12502.2	11888.8	10088.2	8724.6	8680.5	8689.3	9620.5	9973.5	10255.9
52.5°	13817.3	13923.2	13543.7	13168.5	12299.2	10485.4	10436.9	10264.8	11421.0	11906.4	12241.8
55°	15194.1	14995.6	14567.5	14761.7	14413.0	12387.4	12299.2	12096.2	13473.0	13676.0	14029.1
57.5°	15498.6	15348.6	15789.9	16478.3	16813.7	14620.4	14585.1	14218.9	15198.6	15013.2	16010.6
60°	16257.7	16297.4	16910.8	18278.9	18861.4	17197.7	17025.6	16381.2	16871.1	16906.4	17969.9
62.5°	17038.8	16946.1	18318.6	19633.7	20529.5	19638.1	19580.7	18300.9	18857.0	18406.8	19814.6
65°	16465.1	16606.3	18570.1	20772.2	22691.9	22025.5	21977.0	20150.0	20454.5	19894.0	20564.8
67.5°	14426.3	14139.4	16888.8	20251.5	23804.0	24527.7	24474.8	22166.8	21354.8	19885.2	19007.0
70°	10573.7	10326.5	12568.4	17149.1	22210.9	25807.5	26019.4	23570.1	20988.5	18031.7	14664.6
72.5°	5180.9	5185.3	7043.2	11628.4	17572.8	23521.6	23627.5	21610.7	18031.7	13292.1	8305.4
75°	1531.3	1549.0	2608.1	5701.7	11359.2	17864.0	17983.2	16403.3	12497.8	6866.7	2833.2
77.5°	560.5	560.5	865.0	2140.3	5666.4	11275.3	11266.5	10070.6	6328.3	2325.7	662.0
80°	291.3	304.5	450.1	873.8	2453.7	5873.8	6094.4	4929.4	2405.1	979.7	194.2
82.5°	119.2	132.4	247.1	450.1	1178.3	2060.9	2255.1	1932.9	1045.9	684.0	88.3
85°	35.3	39.7	119.2	251.5	463.4	516.3	573.7	648.7	657.5	529.6	39.7
87.5°	4.4	4.4	48.5	83.8	101.5	110.3	128.0	128.0	335.4	370.7	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483633

CATALOG NUMBER: IFLD-S-SA6C-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7	3009.7
2.5°	3031.8	3009.7	2974.4	2895.0	2877.3	2819.9	2815.5	2762.6	2780.2	2744.9	2731.7
5°	3009.7	2961.2	2864.1	2802.3	2740.5	2700.8	2674.3	2652.2	2647.8	2630.2	2621.4
7.5°	3049.4	2983.2	2833.2	2736.1	2630.2	2594.9	2537.5	2533.1	2502.2	2471.3	2471.3
10°	3181.8	3062.7	2899.4	2736.1	2599.3	2484.5	2352.2	2255.1	2219.8	2140.3	2149.2
12.5°	3287.7	3181.8	2943.5	2775.8	2568.4	2308.0	2016.8	1791.7	1685.8	1584.3	1624.0
15°	3437.8	3283.3	3027.4	2784.6	2449.2	1999.1	1522.5	1271.0	1173.9	1151.8	1147.4
17.5°	3601.1	3437.8	3133.3	2762.6	2206.5	1544.6	1120.9	975.3	992.9	1019.4	1015.0
20°	3782.0	3583.4	3212.7	2687.5	1822.6	1120.9	917.9	913.5	940.0	979.7	988.5
22.5°	3971.7	3799.6	3309.8	2462.5	1359.2	900.3	882.6	882.6	900.3	948.8	940.0
25°	4183.6	3954.1	3358.3	2113.9	975.3	829.7	838.5	856.1	865.0	904.7	909.1
27.5°	4346.9	4126.2	3371.6	1694.6	794.3	767.9	789.9	812.0	825.2	856.1	869.4
30°	4496.9	4342.4	3301.0	1262.1	728.2	714.9	723.7	754.6	781.1	807.6	807.6
32.5°	4686.7	4466.0	3137.7	895.8	688.4	666.4	662.0	675.2	706.1	737.0	737.0
35°	4880.8	4673.4	2877.3	719.3	653.1	622.2	604.6	591.3	604.6	626.7	644.3
37.5°	5163.3	4986.7	2550.7	662.0	626.7	582.5	547.2	516.3	494.3	489.8	503.1
40°	5564.9	5339.8	2131.5	622.2	595.8	542.8	489.8	436.9	388.3	357.5	361.9
42.5°	6173.9	5860.5	1677.0	600.2	573.7	498.7	423.7	348.6	286.8	256.0	256.0
45°	7043.2	6549.0	1231.2	578.1	547.2	445.7	348.6	260.4	198.6	180.9	185.3
47.5°	8353.9	7378.6	882.6	542.8	511.9	388.3	273.6	185.3	145.6	136.8	141.2
50°	10066.2	8362.7	688.4	503.1	467.8	326.6	203.0	136.8	114.7	110.3	114.7
52.5°	11862.3	9355.7	604.6	467.8	401.6	260.4	150.0	110.3	97.1	92.7	97.1
55°	13398.0	9995.6	525.2	414.8	322.2	194.2	119.2	97.1	83.8	70.6	70.6
57.5°	14951.4	10317.7	414.8	344.2	238.3	145.6	101.5	83.8	70.6	57.4	53.0
60°	16213.6	10547.2	295.7	256.0	167.7	114.7	88.3	75.0	57.4	44.1	39.7
62.5°	17043.2	9889.6	216.2	194.2	123.6	97.1	75.0	61.8	44.1	30.9	30.9
65°	16632.8	8980.6	167.7	136.8	92.7	75.0	61.8	44.1	30.9	17.7	13.2
67.5°	14924.9	7316.8	136.8	101.5	70.6	57.4	48.5	35.3	17.7	4.4	4.4
70°	11134.1	5361.9	110.3	75.0	57.4	44.1	35.3	22.1	8.8	4.4	0.0
72.5°	6090.0	2934.7	88.3	61.8	44.1	35.3	26.5	17.7	8.8	0.0	0.0
75°	2012.4	781.1	66.2	44.1	26.5	22.1	17.7	13.2	4.4	0.0	0.0
77.5°	485.4	203.0	53.0	39.7	22.1	13.2	8.8	4.4	4.4	0.0	0.0
80°	150.0	83.8	39.7	26.5	17.7	13.2	4.4	0.0	0.0	0.0	0.0
82.5°	61.8	39.7	17.7	17.7	13.2	4.4	0.0	0.0	0.0	0.0	0.0
85°	30.9	22.1	13.2	8.8	8.8	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	8.8	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)