

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: P483647

Luminaire Tested: **IFLD-L-SA8B-740-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483647  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-740-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

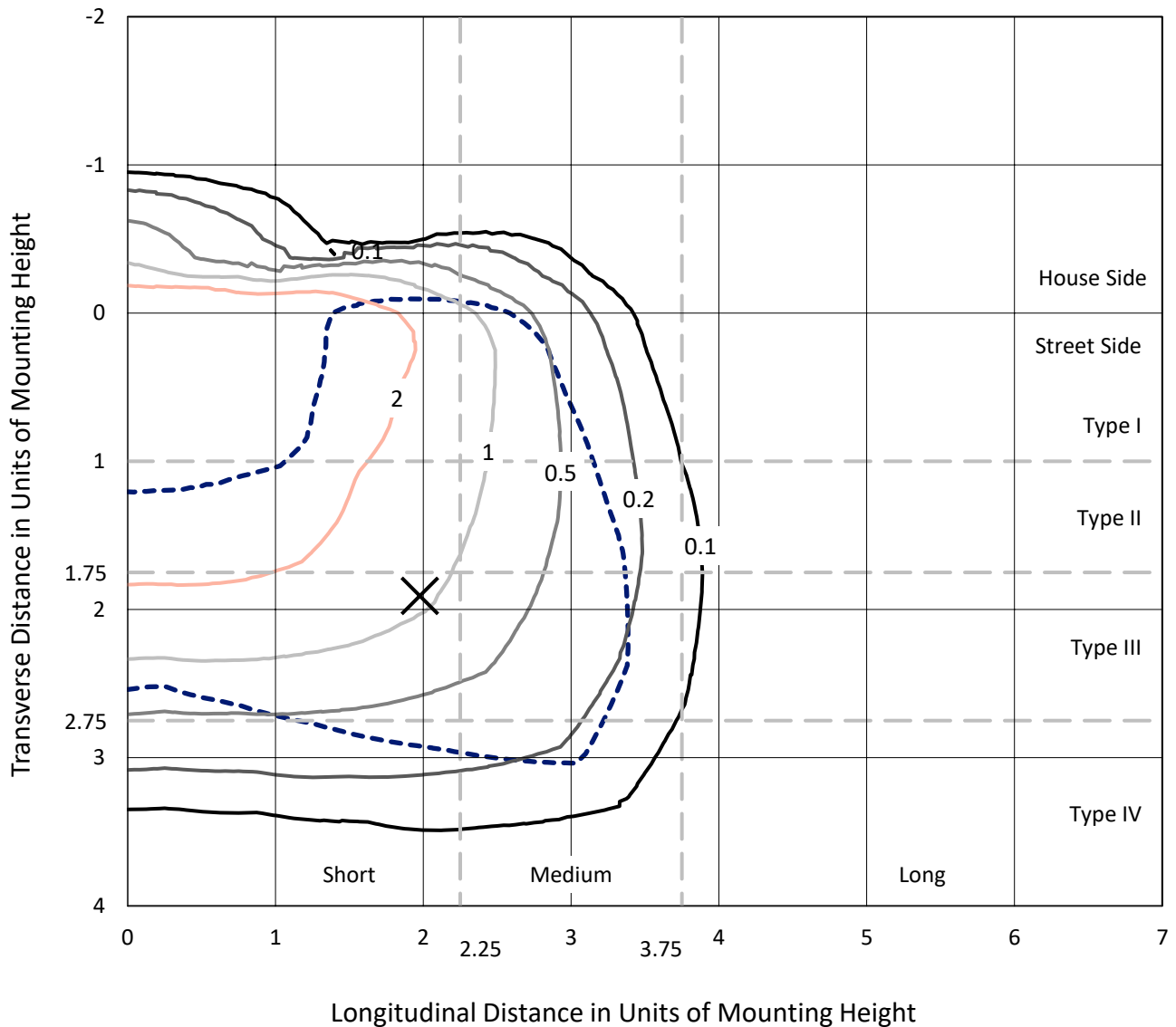
Lumens per Lamp: N/A  
Luminaire Lumens: 30028.9 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 320  
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

REPORT NUMBER: P483647  
 CATALOG NUMBER: IFLD-L-SA8B-740-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

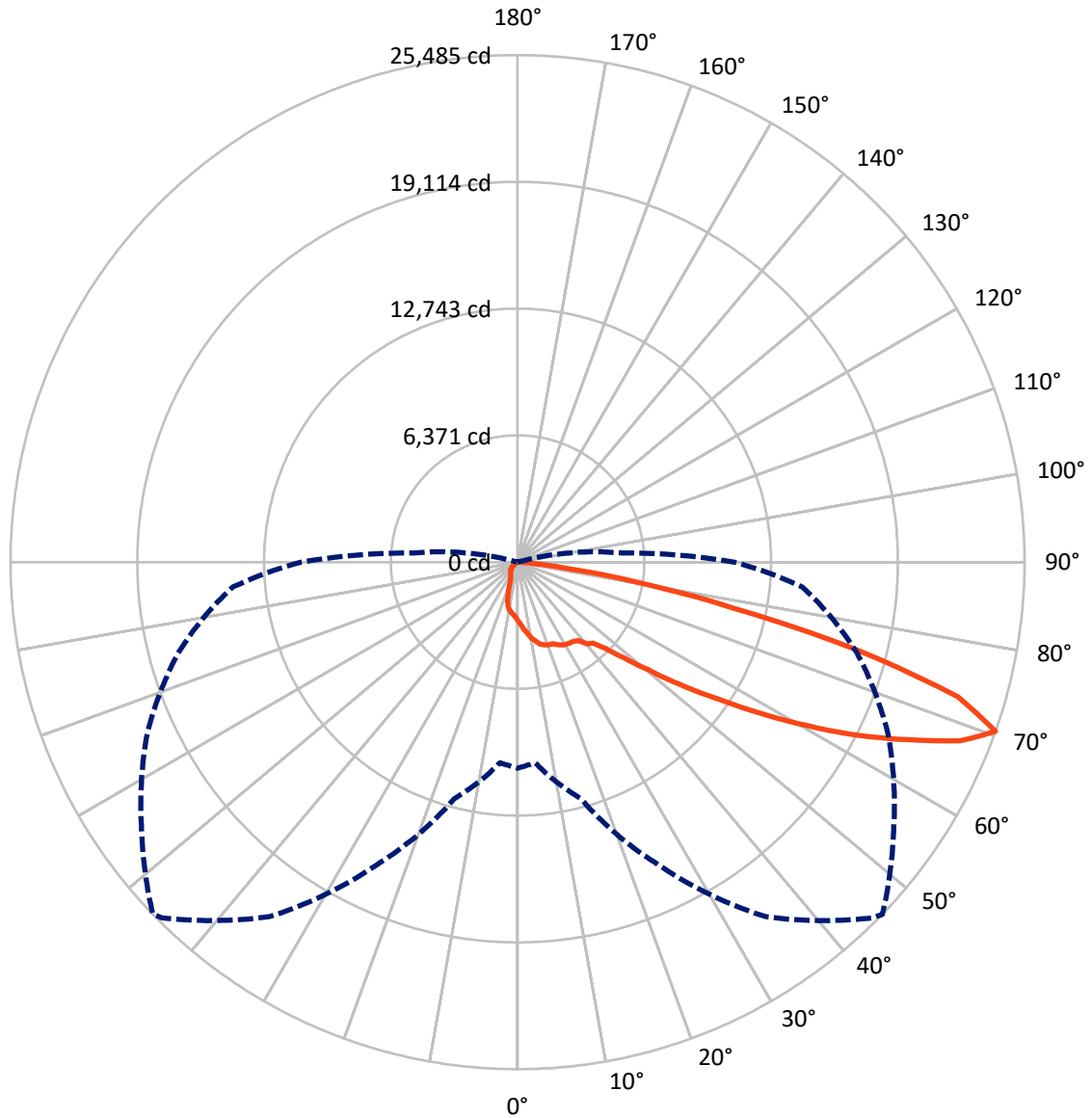
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483647  
CATALOG NUMBER: IFLD-L-SA8B-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
<b>House Side</b>	Lumens	2988.0	0.0	2988.0
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	27041.0	0.0	27041.0
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	30028.9	0.0	30028.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.9	1.0
10°-20°	887.7	3.0
20°-30°	1421.9	4.7
30°-40°	2029.5	6.8
40°-50°	3504.4	11.7
50°-60°	6709.5	22.3
60°-70°	9935.8	33.1
70°-80°	4921.1	16.4
80°-90°	325.2	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°	30028.9	100.0
0°-180°	30028.9	100.0

**Coefficient of Utilization**



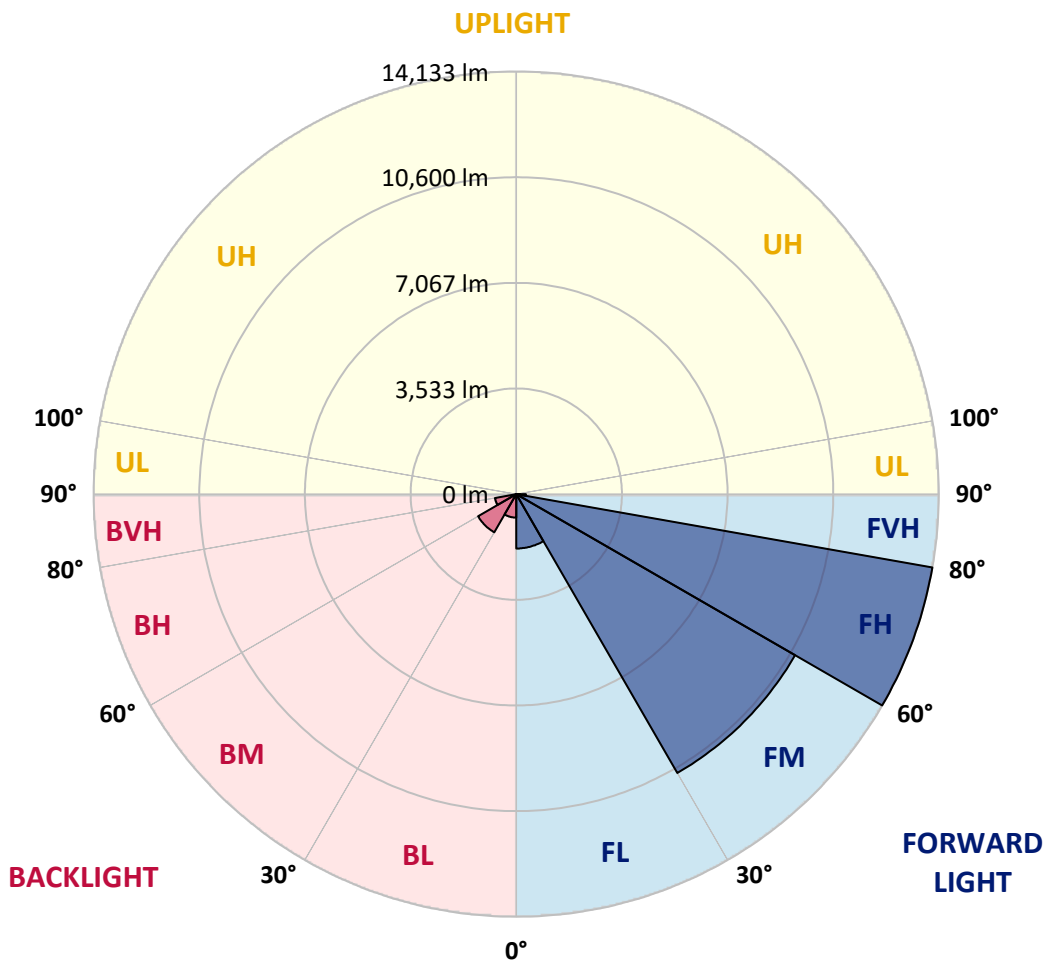
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 CATALOG NUMBER: IFLD-L-SA8B-740-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.5	6.1			
FM (30°-60°)	10768.3	35.9			
FH (60°-80°)	14133.2	47.1			G5
FVH (80°-90°)	321.0	1.1			G3/500
BL (0°-30°)	785.0	2.6	B2/1000		
BM (30°-60°)	1475.2	4.9	B2/2500		
BH (60°-80°)	723.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.1	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: P483647

CATALOG NUMBER: IFLD-L-SA8B-740-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9
2.5°	3289.4	3267.8	3233.2	3220.2	3185.6	3168.4	3142.4	3129.4	3081.9	3034.4	3004.1
5°	3691.4	3639.5	3656.8	3604.9	3492.5	3401.8	3397.4	3298.0	3190.0	3103.5	2986.8
7.5°	4097.7	4054.5	3989.6	3916.1	3790.8	3656.8	3617.9	3522.8	3371.5	3220.2	3064.6
10°	4404.6	4374.3	4318.1	4214.4	4041.5	3890.2	3894.5	3734.6	3574.7	3401.8	3190.0
12.5°	4594.8	4607.7	4525.6	4421.9	4270.6	4080.4	4076.1	3968.0	3786.5	3604.9	3354.2
15°	4784.9	4832.5	4707.1	4586.1	4391.6	4253.3	4279.2	4149.5	3972.3	3764.8	3488.2
17.5°	4815.2	4828.2	4802.2	4625.0	4482.4	4365.7	4370.0	4283.5	4149.5	3924.8	3687.0
20°	4763.3	4754.7	4724.4	4594.8	4499.7	4430.5	4434.8	4413.2	4339.7	4158.2	3834.0
22.5°	4612.0	4612.0	4573.1	4486.7	4443.5	4508.3	4456.4	4538.6	4460.8	4352.7	4084.7
25°	4491.0	4538.6	4517.0	4460.8	4478.1	4564.5	4590.4	4668.2	4655.3	4521.3	4257.6
27.5°	4620.7	4564.5	4577.5	4512.6	4577.5	4707.1	4720.1	4776.3	4772.0	4663.9	4413.2
30°	4707.1	4759.0	4659.6	4517.0	4586.1	4806.6	4797.9	4871.4	4906.0	4776.3	4560.2
32.5°	4983.8	4940.6	4858.4	4668.2	4676.9	4802.2	4841.1	4936.2	4957.8	4880.0	4702.8
35°	5550.0	5485.2	5126.4	4841.1	4797.9	4858.4	4884.4	5070.2	5109.1	5022.7	4854.1
37.5°	6423.2	6276.2	5843.9	5212.9	5018.4	5005.4	5005.4	5251.8	5398.7	5199.9	5078.9
40°	7672.3	7464.9	6998.0	5900.1	5308.0	5359.8	5411.7	5545.7	5528.4	5398.7	5372.8
42.5°	9263.0	9103.1	8597.3	7054.2	5861.2	5601.9	5558.7	5740.2	6012.5	5960.7	5943.4
45°	10590.0	10598.6	10274.4	8636.2	6816.5	6159.5	6189.7	6328.1	6786.2	6747.3	6743.0
47.5°	11558.2	11437.2	11389.6	10162.1	8208.3	7218.5	7175.3	7270.4	7866.8	8113.2	8225.6
50°	12440.0	12357.9	12245.5	11644.7	9881.1	8545.5	8502.2	8510.9	9422.9	9768.7	10045.4
52.5°	13533.6	13637.3	13265.6	12898.2	12046.7	10270.1	10222.6	10054.0	11186.5	11662.0	11990.5
55°	14882.2	14687.7	14268.4	14458.6	14117.1	12133.1	12046.7	11847.8	13196.4	13395.3	13741.0
57.5°	15180.4	15033.5	15465.7	16140.0	16468.5	14320.3	14285.7	13926.9	14886.5	14705.0	15681.8
60°	15923.9	15962.8	16563.6	17903.6	18474.1	16844.6	16676.0	16044.9	16524.7	16559.3	17601.0
62.5°	16689.0	16598.2	17942.5	19230.6	20108.0	19234.9	19178.7	17925.2	18469.8	18028.9	19407.8
65°	16127.0	16265.4	18188.8	20345.7	22226.0	21573.3	21525.8	19736.3	20034.5	19485.6	20142.6
67.5°	14130.1	13849.1	16542.0	19835.7	23315.3	24024.1	23972.3	21711.6	20916.3	19476.9	18616.8
70°	10356.6	10114.5	12310.3	16797.0	21754.9	25277.7	25485.1	23086.2	20557.5	17661.5	14363.5
72.5°	5074.5	5078.9	6898.6	11389.6	17212.0	23038.6	23142.4	21167.0	17661.5	13019.2	8134.8
75°	1499.9	1517.2	2554.6	5584.6	11126.0	17497.3	17614.0	16066.5	12241.2	6725.7	2775.0
77.5°	549.0	549.0	847.2	2096.4	5550.0	11043.8	11035.2	9863.8	6198.4	2277.9	648.4
80°	285.3	298.2	440.9	855.8	2403.3	5753.2	5969.3	4828.2	2355.7	959.6	190.2
82.5°	116.7	129.7	242.1	440.9	1154.1	2018.6	2208.8	1893.2	1024.4	670.0	86.4
85°	34.6	38.9	116.7	246.4	453.9	505.7	561.9	635.4	644.0	518.7	38.9
87.5°	4.3	4.3	47.5	82.1	99.4	108.1	125.4	125.4	328.5	363.1	21.6
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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CATALOG NUMBER: IFLD-L-SA8B-740-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9
2.5°	2969.5	2947.9	2913.3	2835.5	2818.2	2762.0	2757.7	2705.8	2723.1	2688.6	2675.6
5°	2947.9	2900.4	2805.3	2744.8	2684.2	2645.3	2619.4	2597.8	2593.5	2576.2	2567.5
7.5°	2986.8	2922.0	2775.0	2679.9	2576.2	2541.6	2485.4	2481.1	2450.8	2420.6	2420.6
10°	3116.5	2999.8	2839.8	2679.9	2545.9	2433.5	2303.9	2208.8	2174.2	2096.4	2105.0
12.5°	3220.2	3116.5	2883.1	2718.8	2515.7	2260.6	1975.4	1754.9	1651.2	1551.8	1590.7
15°	3367.2	3215.9	2965.2	2727.5	2399.0	1958.1	1491.2	1244.9	1149.8	1128.2	1123.8
17.5°	3527.1	3367.2	3068.9	2705.8	2161.2	1512.9	1097.9	955.3	972.5	998.5	994.2
20°	3704.3	3509.8	3146.7	2632.4	1785.2	1097.9	899.1	894.7	920.7	959.6	968.2
22.5°	3890.2	3721.6	3241.8	2411.9	1331.3	881.8	864.5	864.5	881.8	929.3	920.7
25°	4097.7	3872.9	3289.4	2070.5	955.3	812.6	821.3	838.6	847.2	886.1	890.4
27.5°	4257.6	4041.5	3302.3	1659.8	778.0	752.1	773.7	795.3	808.3	838.6	851.5
30°	4404.6	4253.3	3233.2	1236.2	713.2	700.2	708.9	739.1	765.1	791.0	791.0
32.5°	4590.4	4374.3	3073.3	877.5	674.3	652.7	648.4	661.3	691.6	721.8	721.8
35°	4780.6	4577.5	2818.2	704.6	639.7	609.5	592.2	579.2	592.2	613.8	631.1
37.5°	5057.3	4884.4	2498.4	648.4	613.8	570.6	536.0	505.7	484.1	479.8	492.8
40°	5450.6	5230.2	2087.7	609.5	583.5	531.7	479.8	427.9	380.4	350.1	354.4
42.5°	6047.1	5740.2	1642.5	587.9	561.9	488.4	415.0	341.5	281.0	250.7	250.7
45°	6898.6	6414.5	1206.0	566.2	536.0	436.6	341.5	255.0	194.5	177.2	181.5
47.5°	8182.4	7227.1	864.5	531.7	501.4	380.4	268.0	181.5	142.6	134.0	138.3
50°	9859.5	8191.0	674.3	492.8	458.2	319.9	198.8	134.0	112.4	108.1	112.4
52.5°	11618.7	9163.6	592.2	458.2	393.3	255.0	147.0	108.1	95.1	90.8	95.1
55°	13122.9	9790.3	514.4	406.3	315.5	190.2	116.7	95.1	82.1	69.2	69.2
57.5°	14644.4	10105.9	406.3	337.2	233.4	142.6	99.4	82.1	69.2	56.2	51.9
60°	15880.7	10330.6	289.6	250.7	164.3	112.4	86.4	73.5	56.2	43.2	38.9
62.5°	16693.3	9686.6	211.8	190.2	121.0	95.1	73.5	60.5	43.2	30.3	30.3
65°	16291.3	8796.2	164.3	134.0	90.8	73.5	60.5	43.2	30.3	17.3	13.0
67.5°	14618.5	7166.6	134.0	99.4	69.2	56.2	47.5	34.6	17.3	4.3	4.3
70°	10905.5	5251.8	108.1	73.5	56.2	43.2	34.6	21.6	8.6	4.3	0.0
72.5°	5965.0	2874.4	86.4	60.5	43.2	34.6	25.9	17.3	8.6	0.0	0.0
75°	1971.0	765.1	64.8	43.2	25.9	21.6	17.3	13.0	4.3	0.0	0.0
77.5°	475.5	198.8	51.9	38.9	21.6	13.0	8.6	4.3	4.3	0.0	0.0
80°	147.0	82.1	38.9	25.9	17.3	13.0	4.3	0.0	0.0	0.0	0.0
82.5°	60.5	38.9	17.3	17.3	13.0	4.3	0.0	0.0	0.0	0.0	0.0
85°	30.3	21.6	13.0	8.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	8.6	4.3	4.3	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)