

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: P483682

Luminaire Tested: **IFLD-L-SA7C-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483682
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

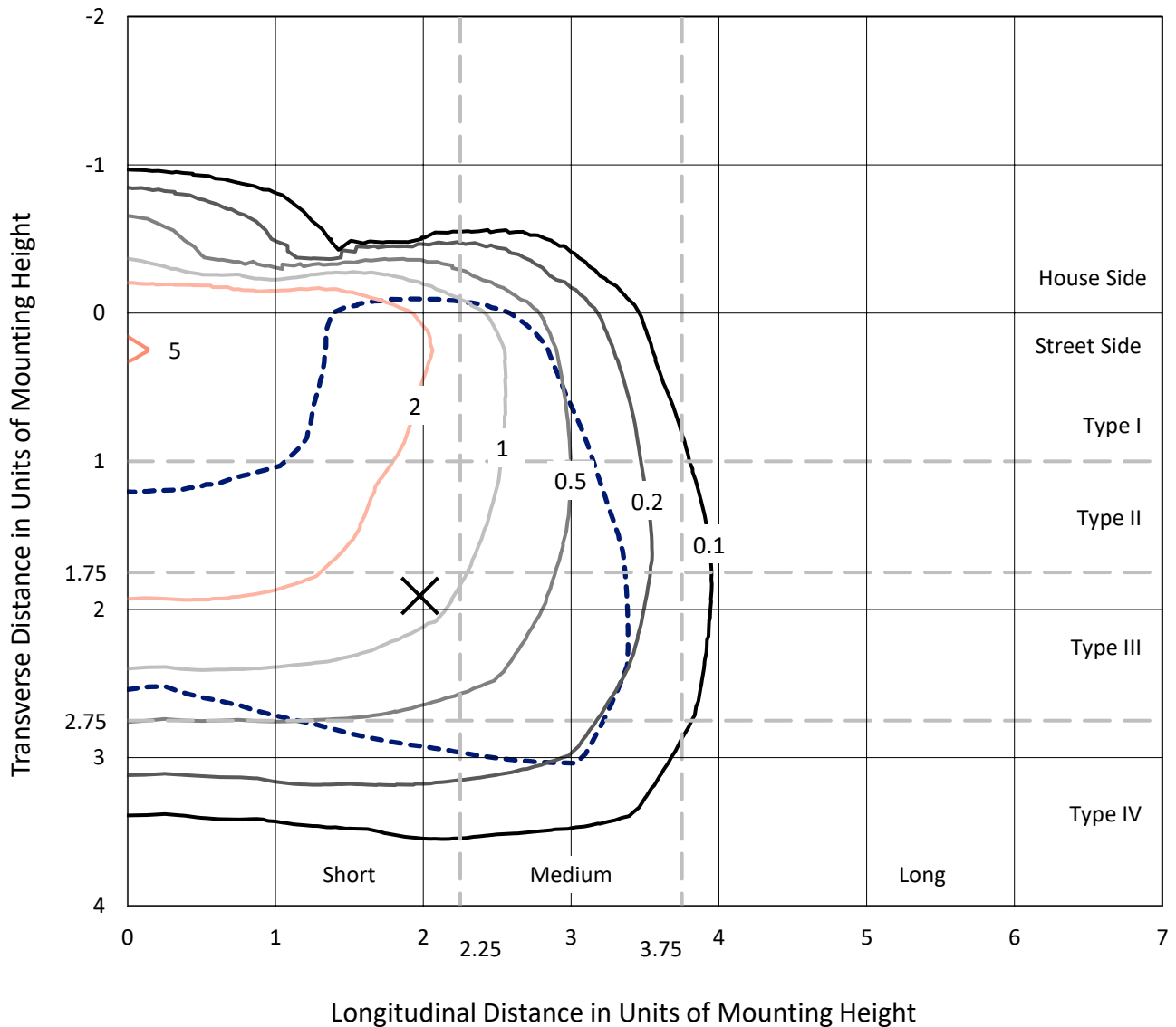
Lumens per Lamp: N/A
Luminaire Lumens: 33457.9 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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: P483682
 CATALOG NUMBER: IFLD-L-SA7C-750-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

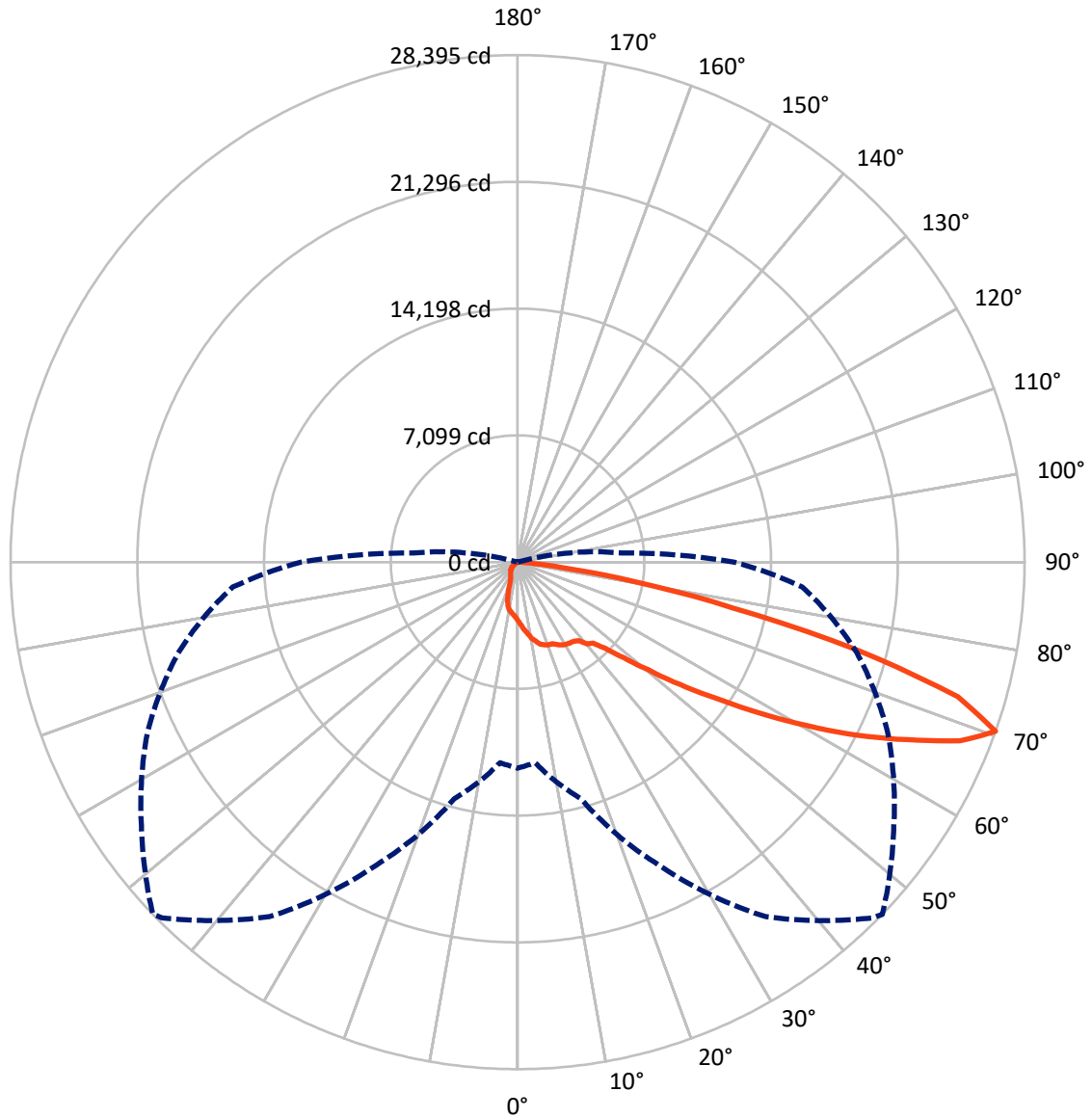
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P483682
CATALOG NUMBER: IFLD-L-SA7C-750-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	3329.2	0.0	3329.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	30128.8	0.0	30128.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	33457.9	0.0	33457.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.5	1.0
10°-20°	989.0	3.0
20°-30°	1584.2	4.7
30°-40°	2261.3	6.8
40°-50°	3904.6	11.7
50°-60°	7475.7	22.3
60°-70°	11070.3	33.1
70°-80°	5483.0	16.4
80°-90°	362.3	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°	33457.9	100.0
0°-180°	33457.9	100.0

Coefficient of Utilization

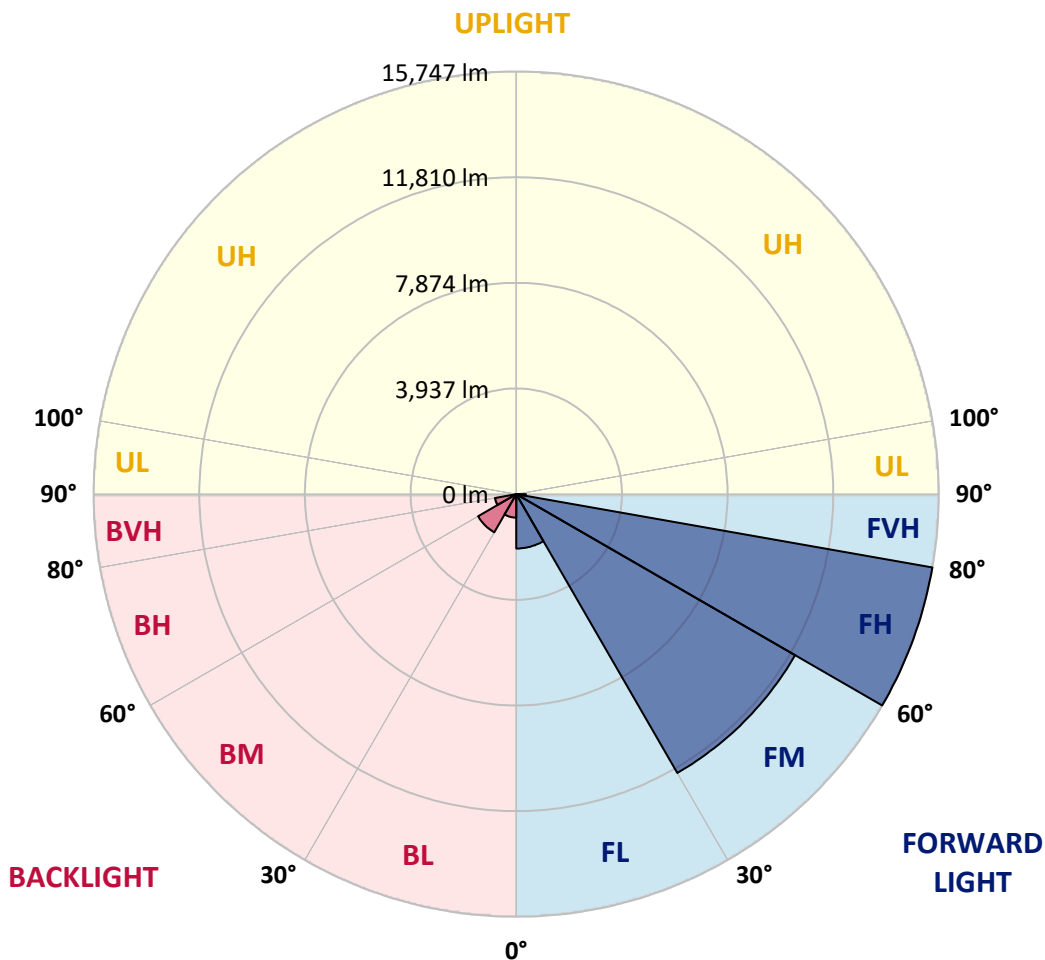


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2026.1	6.1			
FM (30°-60°)	11997.9	35.9			
FH (60°-80°)	15747.0	47.1			G5
FVH (80°-90°)	357.7	1.1			G3/500
BL (0°-30°)	874.6	2.6	B2/1000		
BM (30°-60°)	1643.6	4.9	B2/2500		
BH (60°-80°)	806.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.6	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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CATALOG NUMBER: IFLD-L-SA7C-750-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5
2.5°	3665.0	3640.9	3602.4	3587.9	3549.4	3530.1	3501.2	3486.8	3433.8	3380.8	3347.1
5°	4112.9	4055.1	4074.4	4016.6	3891.3	3790.2	3785.4	3674.6	3554.2	3457.9	3327.9
7.5°	4565.6	4517.4	4445.2	4363.3	4223.6	4074.4	4031.0	3925.1	3756.5	3587.9	3414.6
10°	4907.5	4873.8	4811.2	4695.6	4503.0	4334.4	4339.2	4161.0	3982.8	3790.2	3554.2
12.5°	5119.4	5133.9	5042.4	4926.8	4758.2	4546.3	4541.5	4421.1	4218.8	4016.6	3737.2
15°	5331.3	5384.3	5244.6	5109.8	4893.1	4739.0	4767.9	4623.4	4425.9	4194.8	3886.5
17.5°	5365.0	5379.5	5350.6	5153.1	4994.2	4864.2	4869.0	4772.7	4623.4	4372.9	4108.1
20°	5307.3	5297.6	5263.9	5119.4	5013.5	4936.4	4941.2	4917.2	4835.3	4633.0	4271.8
22.5°	5138.7	5138.7	5095.3	4999.0	4950.9	5023.1	4965.3	5056.8	4970.1	4849.7	4551.1
25°	5003.8	5056.8	5032.7	4970.1	4989.4	5085.7	5114.6	5201.3	5186.9	5037.6	4743.8
27.5°	5148.3	5085.7	5100.2	5027.9	5100.2	5244.6	5259.1	5321.7	5316.9	5196.5	4917.2
30°	5244.6	5302.4	5191.7	5032.7	5109.8	5355.4	5345.8	5427.7	5466.2	5321.7	5080.9
32.5°	5552.9	5504.7	5413.2	5201.3	5210.9	5350.6	5393.9	5499.9	5524.0	5437.3	5239.8
35°	6183.8	6111.5	5711.8	5393.9	5345.8	5413.2	5442.1	5649.2	5692.5	5596.2	5408.4
37.5°	7156.6	6992.9	6511.3	5808.1	5591.4	5577.0	5577.0	5851.5	6015.2	5793.7	5658.8
40°	8548.4	8317.3	7797.1	6573.9	5914.1	5971.9	6029.7	6179.0	6159.7	6015.2	5986.3
42.5°	10320.7	10142.5	9579.1	7859.7	6530.5	6241.6	6193.4	6395.7	6699.1	6641.3	6622.0
45°	11799.2	11808.9	11447.7	9622.4	7594.9	6862.8	6896.5	7050.7	7561.2	7517.8	7513.0
47.5°	12878.0	12743.2	12690.2	11322.5	9145.6	8042.8	7994.6	8100.5	8765.2	9039.7	9164.9
50°	13860.5	13769.0	13643.8	12974.4	11009.4	9521.3	9473.1	9482.7	10498.9	10884.2	11192.4
52.5°	15079.0	15194.5	14780.4	14371.0	13422.2	11442.9	11389.9	11202.1	12463.9	12993.6	13359.6
55°	16581.6	16364.8	15897.7	16109.6	15729.1	13518.6	13422.2	13200.7	14703.3	14924.8	15310.1
57.5°	16913.9	16750.1	17231.7	17983.0	18349.0	15955.5	15916.9	15517.2	16586.4	16384.1	17472.5
60°	17742.2	17785.6	18455.0	19948.0	20583.7	18768.0	18580.2	17877.1	18411.6	18450.2	19610.8
62.5°	18594.7	18493.5	19991.3	21426.5	22404.1	21431.3	21368.7	19972.0	20578.9	20087.6	21623.9
65°	17968.6	18122.7	20265.8	22669.0	24764.0	24036.8	23983.8	21989.9	22322.3	21710.6	22442.7
67.5°	15743.6	15430.5	18430.9	22100.7	25977.6	26767.4	26709.6	24190.9	23304.7	21701.0	20742.6
70°	11539.2	11269.5	13716.0	18715.1	24239.0	28164.1	28395.3	25722.4	22905.0	19678.3	16003.6
72.5°	5654.0	5658.8	7686.4	12690.2	19177.4	25669.4	25785.0	23584.1	19678.3	14505.9	9063.8
75°	1671.2	1690.4	2846.3	6222.3	12396.4	19495.3	19625.3	17901.1	13639.0	7493.7	3091.9
77.5°	611.6	611.6	943.9	2335.8	6183.8	12304.9	12295.3	10990.2	6906.2	2538.0	722.4
80°	317.9	332.3	491.2	953.6	2677.7	6410.1	6650.9	5379.5	2624.7	1069.2	211.9
82.5°	130.0	144.5	269.7	491.2	1285.9	2249.1	2461.0	2109.4	1141.4	746.5	96.3
85°	38.5	43.3	130.0	274.5	505.7	563.5	626.1	708.0	717.6	577.9	43.3
87.5°	4.8	4.8	53.0	91.5	110.8	120.4	139.7	139.7	366.0	404.5	24.1
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°	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5
2.5°	3308.6	3284.5	3246.0	3159.3	3140.0	3077.4	3072.6	3014.8	3034.1	2995.6	2981.1
5°	3284.5	3231.5	3125.6	3058.2	2990.7	2947.4	2918.5	2894.4	2889.6	2870.3	2860.7
7.5°	3327.9	3255.6	3091.9	2985.9	2870.3	2831.8	2769.2	2764.4	2730.7	2697.0	2697.0
10°	3472.4	3342.3	3164.1	2985.9	2836.6	2711.4	2566.9	2461.0	2422.5	2335.8	2345.4
12.5°	3587.9	3472.4	3212.3	3029.3	2802.9	2518.8	2200.9	1955.3	1839.7	1729.0	1772.3
15°	3751.7	3583.1	3303.8	3038.9	2672.9	2181.7	1661.5	1387.0	1281.1	1257.0	1252.2
17.5°	3929.9	3751.7	3419.4	3014.8	2408.0	1685.6	1223.3	1064.3	1083.6	1112.5	1107.7
20°	4127.3	3910.6	3506.1	2933.0	1989.0	1223.3	1001.7	996.9	1025.8	1069.2	1078.8
22.5°	4334.4	4146.6	3612.0	2687.3	1483.3	982.5	963.2	963.2	982.5	1035.4	1025.8
25°	4565.6	4315.2	3665.0	2306.9	1064.3	905.4	915.0	934.3	943.9	987.3	992.1
27.5°	4743.8	4503.0	3679.4	1849.4	866.9	838.0	862.1	886.1	900.6	934.3	948.8
30°	4907.5	4739.0	3602.4	1377.4	794.6	780.2	789.8	823.5	852.4	881.3	881.3
32.5°	5114.6	4873.8	3424.2	977.7	751.3	727.2	722.4	736.9	770.6	804.3	804.3
35°	5326.5	5100.2	3140.0	785.0	712.8	679.1	659.8	645.3	659.8	683.9	703.1
37.5°	5634.7	5442.1	2783.7	722.4	683.9	635.7	597.2	563.5	539.4	534.6	549.0
40°	6073.0	5827.4	2326.1	679.1	650.2	592.4	534.6	476.8	423.8	390.1	394.9
42.5°	6737.6	6395.7	1830.1	655.0	626.1	544.2	462.3	380.5	313.0	279.3	279.3
45°	7686.4	7147.0	1343.7	630.9	597.2	486.4	380.5	284.1	216.7	197.5	202.3
47.5°	9116.7	8052.4	963.2	592.4	558.7	423.8	298.6	202.3	158.9	149.3	154.1
50°	10985.3	9126.4	751.3	549.0	510.5	356.4	221.5	149.3	125.2	120.4	125.2
52.5°	12945.5	10210.0	659.8	510.5	438.3	284.1	163.7	120.4	106.0	101.1	106.0
55°	14621.4	10908.3	573.1	452.7	351.6	211.9	130.0	106.0	91.5	77.1	77.1
57.5°	16316.7	11259.9	452.7	375.6	260.1	158.9	110.8	91.5	77.1	62.6	57.8
60°	17694.1	11510.3	322.7	279.3	183.0	125.2	96.3	81.9	62.6	48.2	43.3
62.5°	18599.5	10792.7	236.0	211.9	134.8	106.0	81.9	67.4	48.2	33.7	33.7
65°	18151.6	9800.6	183.0	149.3	101.1	81.9	67.4	48.2	33.7	19.3	14.4
67.5°	16287.8	7985.0	149.3	110.8	77.1	62.6	53.0	38.5	19.3	4.8	4.8
70°	12150.8	5851.5	120.4	81.9	62.6	48.2	38.5	24.1	9.6	4.8	0.0
72.5°	6646.1	3202.7	96.3	67.4	48.2	38.5	28.9	19.3	9.6	0.0	0.0
75°	2196.1	852.4	72.2	48.2	28.9	24.1	19.3	14.4	4.8	0.0	0.0
77.5°	529.8	221.5	57.8	43.3	24.1	14.4	9.6	4.8	4.8	0.0	0.0
80°	163.7	91.5	43.3	28.9	19.3	14.4	4.8	0.0	0.0	0.0	0.0
82.5°	67.4	43.3	19.3	19.3	14.4	4.8	0.0	0.0	0.0	0.0	0.0
85°	33.7	24.1	14.4	9.6	9.6	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	24.1	9.6	4.8	4.8	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)