

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: P483142

Luminaire Tested: **IFLD-L-SA8D-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483142
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

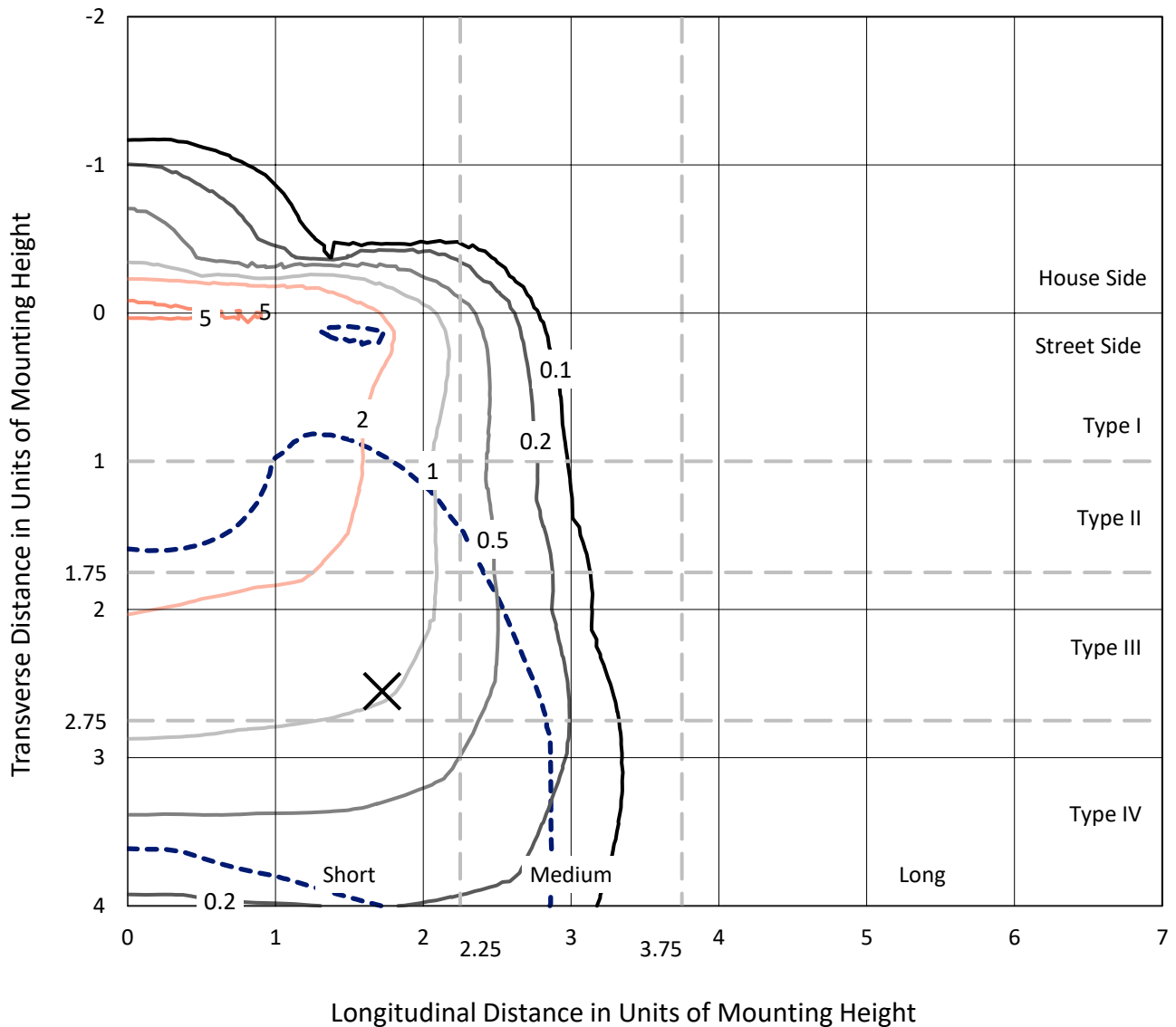
Lumens per Lamp: N/A
Luminaire Lumens: 33711.6 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

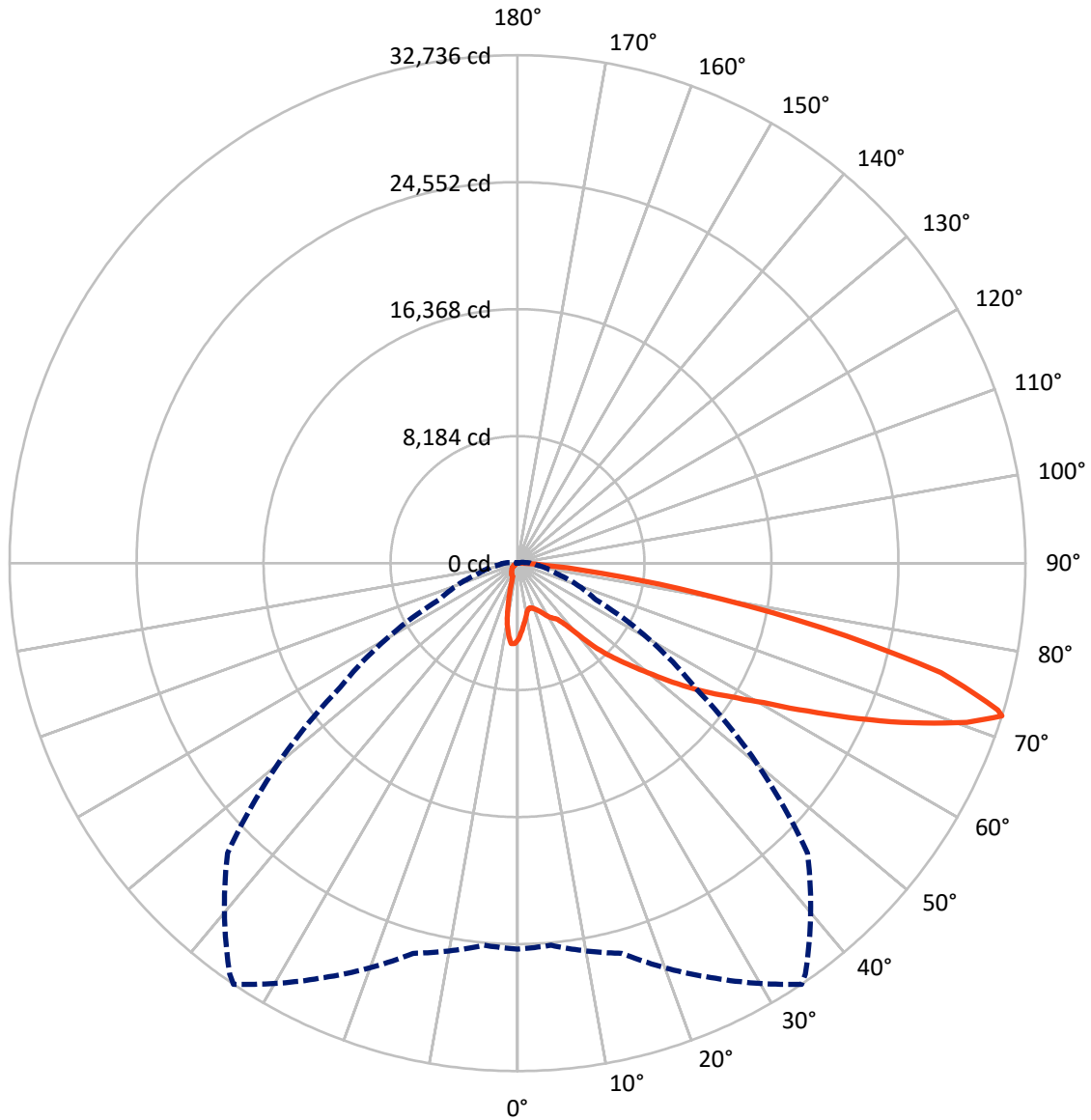
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3451.3	0.0	3451.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	30260.4	0.0	30260.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	33711.6	0.0	33711.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.1	1.3
10°-20°	969.3	2.9
20°-30°	1463.1	4.3
30°-40°	2374.3	7.0
40°-50°	4464.7	13.2
50°-60°	7299.9	21.7
60°-70°	9704.2	28.8
70°-80°	6498.8	19.3
80°-90°	509.3	1.5
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°	33711.6	100.0
0°-180°	33711.6	100.0



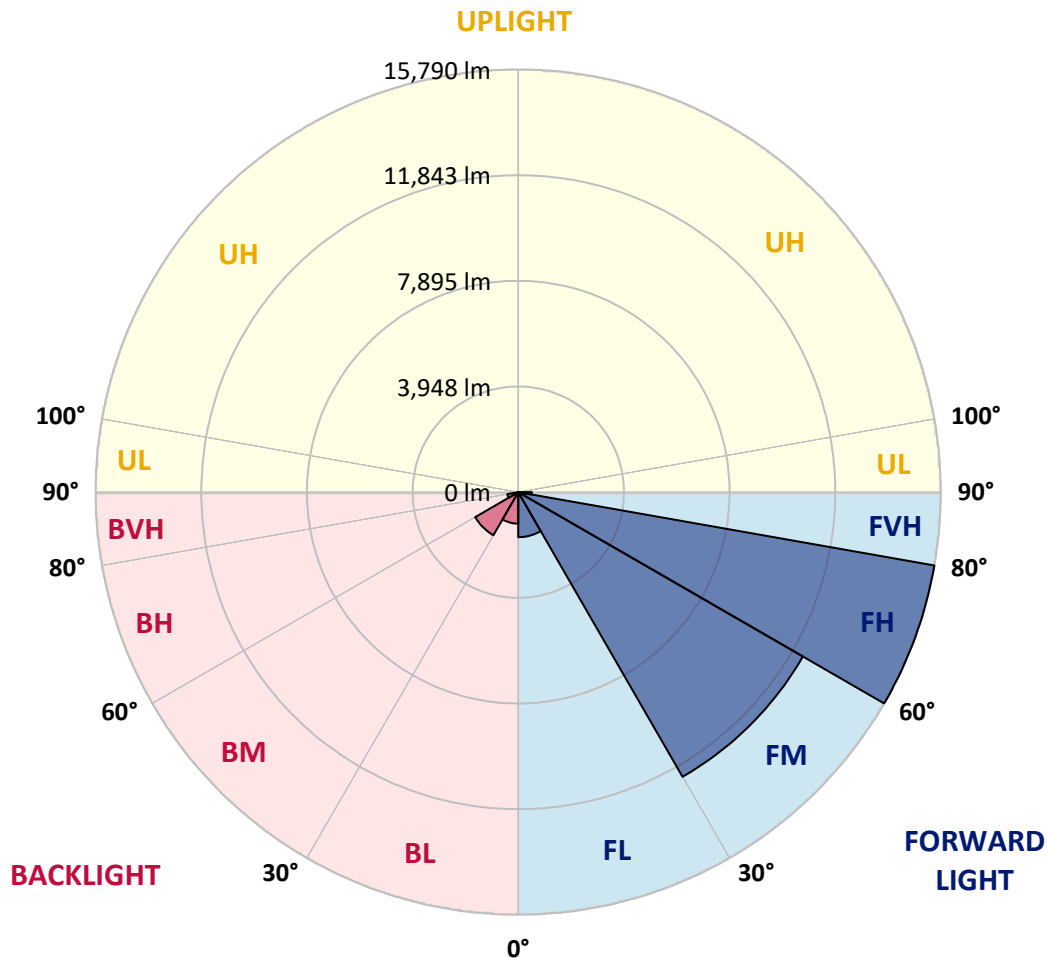
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1682.9	5.0			
FM (30°-60°)	12281.1	36.4			
FH (60°-80°)	15790.3	46.8			G5
FVH (80°-90°)	506.1	1.5			G4/750
BL (0°-30°)	1177.6	3.5	B3/2500		
BM (30°-60°)	1857.8	5.5	B2/2500		
BH (60°-80°)	412.7	1.2	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0
2.5°	4361.8	4352.1	4381.3	4430.1	4478.8	4459.3	4551.9	4649.4	4717.6	4810.2	4922.3
5°	3811.1	3835.5	3864.7	3962.2	4025.6	4040.2	4210.8	4337.5	4547.0	4761.5	4961.3
7.5°	3309.1	3338.4	3396.9	3504.1	3635.7	3669.8	3840.4	4093.8	4366.7	4649.4	4975.9
10°	2943.6	2972.9	3036.2	3104.5	3279.9	3279.9	3513.8	3864.7	4220.5	4551.9	4980.8
12.5°	2865.6	2880.3	2875.4	2929.0	3041.1	3065.5	3294.5	3679.5	4093.8	4517.8	5058.7
15°	2958.2	2968.0	2919.3	2890.0	2987.5	3011.9	3226.3	3567.4	4010.9	4537.3	5185.5
17.5°	3143.4	3109.3	3011.9	2968.0	3050.8	3065.5	3265.3	3562.6	4001.2	4590.9	5331.7
20°	3250.7	3289.6	3119.1	3036.2	3153.2	3172.7	3387.1	3640.5	4049.9	4683.5	5536.4
22.5°	3440.7	3460.2	3231.2	3177.6	3289.6	3289.6	3533.3	3796.5	4166.9	4834.6	5780.0
25°	3708.8	3684.4	3416.4	3362.8	3470.0	3513.8	3757.5	4045.0	4347.2	4975.9	6004.2
27.5°	3918.3	3933.0	3713.6	3572.3	3752.6	3781.9	4045.0	4313.1	4483.7	5092.9	6277.1
30°	4230.2	4201.0	3967.1	3806.2	4030.4	4035.3	4288.7	4566.5	4746.8	5302.4	6686.5
32.5°	4600.6	4542.2	4274.1	4045.0	4225.4	4269.2	4527.5	4932.0	5156.2	5697.2	7320.1
35°	5385.3	5243.9	4805.3	4449.6	4464.2	4483.7	4883.3	5463.3	5721.6	6199.2	8168.1
37.5°	6530.6	6472.1	5975.0	5297.6	5039.3	4980.8	5429.1	6165.0	6486.7	6862.0	9269.5
40°	7666.1	7583.2	7120.3	6608.5	6140.7	6023.7	6247.9	7095.9	7388.3	7783.1	10400.2
42.5°	8928.4	8782.1	8236.3	7822.1	7529.6	7402.9	7315.2	8265.5	8596.9	8865.0	11506.5
45°	10205.2	9966.4	9176.9	8860.1	8704.2	8635.9	8626.2	9737.4	9937.2	9990.8	12734.6
47.5°	11326.1	11067.8	10351.4	9995.7	9878.7	9859.2	10405.0	11433.4	11277.4	11136.1	14104.1
50°	12188.8	12023.1	11506.5	11379.7	11292.0	11257.9	12534.8	13178.1	12456.8	12208.3	15307.8
52.5°	13524.1	13153.7	12568.9	12612.8	12919.8	12924.7	14693.8	14835.1	13436.4	12944.2	16443.4
55°	14591.4	14347.7	13870.1	13806.8	14615.8	14703.5	16628.6	16092.5	13982.2	13645.9	16862.5
57.5°	15848.8	15736.7	15390.7	15400.4	16248.4	16433.6	18348.9	17154.9	14435.5	14099.2	16925.9
60°	17666.6	17345.0	17164.7	17247.5	18246.6	18426.9	20015.7	17920.1	14654.8	14396.5	16769.9
62.5°	19674.5	19299.3	19104.3	19528.3	20985.5	21014.8	21282.8	18597.5	14518.3	14474.5	15765.9
65°	22091.8	21721.4	21565.5	22418.3	24148.5	24041.2	23061.7	18885.0	14084.6	13689.8	13129.4
67.5°	24499.4	24275.2	23953.5	25313.2	27467.3	27467.3	24908.7	18777.8	12949.0	10989.9	8587.2
70°	25639.8	25795.7	26307.4	28442.1	30727.8	30493.8	26731.4	17544.8	9639.9	5901.9	3377.4
72°	24879.5	24718.7	26039.4	29465.5	32735.7	32350.6	26424.4	13948.1	5570.5	2587.9	1174.5
72.5°	23573.4	23724.5	25542.3	29324.2	32360.4	32677.2	25673.9	12866.2	4581.1	2061.5	887.0
75°	14455.0	14713.3	19065.3	24899.0	28198.4	27842.6	19859.7	6130.9	1759.4	877.2	316.8
77.5°	5278.1	5492.5	9250.0	15668.5	20054.7	19830.5	11491.8	2178.5	955.2	653.1	160.8
80°	1374.3	1486.4	3143.4	7227.5	11794.0	11808.6	4810.2	872.4	648.2	536.1	97.5
82.5°	272.9	302.2	965.0	2812.0	5512.0	5438.9	1520.5	467.9	487.4	438.6	68.2
85°	34.1	43.9	204.7	955.2	1783.7	1598.5	375.3	233.9	360.6	341.1	43.9
87.5°	4.9	4.9	48.7	219.3	375.3	365.5	78.0	73.1	160.8	209.6	24.4
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°	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0	4932.0
2.5°	4985.6	5005.1	5073.4	5131.9	5200.1	5219.6	5190.3	5239.1	5170.8	5209.8	5219.6
5°	4995.4	5107.5	5234.2	5317.0	5297.6	5248.8	5209.8	5078.2	4985.6	4951.5	5024.6
7.5°	5063.6	5190.3	5326.8	5326.8	5219.6	4966.2	4722.5	4488.5	4293.6	4196.1	4279.0
10°	5151.3	5282.9	5424.3	5239.1	4839.4	4376.5	4030.4	3591.8	3294.5	3138.6	3153.2
12.5°	5268.3	5453.5	5502.2	5073.4	4410.6	3723.4	3094.7	2485.5	2202.8	1978.7	1983.5
15°	5419.4	5599.7	5453.5	4712.7	3864.7	2851.0	2095.6	1515.7	1291.5	1174.5	1174.5
17.5°	5619.2	5755.7	5438.9	4381.3	3128.8	1949.4	1286.6	1023.4	974.7	955.2	955.2
20°	5853.1	5955.5	5297.6	3864.7	2324.7	1252.5	945.5	916.2	921.1	911.4	911.4
22.5°	6116.3	6150.4	5136.7	3265.3	1574.2	926.0	882.1	887.0	891.9	882.1	887.0
25°	6394.1	6301.5	4902.8	2563.5	1047.8	843.1	852.9	862.6	867.5	872.4	872.4
27.5°	6706.0	6520.8	4576.3	1876.3	818.8	794.4	823.6	852.9	857.7	857.7	852.9
30°	7164.1	6857.1	4259.5	1272.0	721.3	740.8	789.5	823.6	848.0	848.0	843.1
32.5°	7744.1	7208.0	3816.0	867.5	667.7	677.4	716.4	784.6	838.3	843.1	828.5
35°	8548.2	7632.0	3353.0	692.0	628.7	633.6	657.9	711.5	804.1	833.4	828.5
37.5°	9396.2	8114.5	2777.9	623.8	599.4	594.6	609.2	653.1	735.9	809.0	813.9
40°	10297.8	8621.3	2173.6	589.7	575.1	565.3	570.2	589.7	653.1	745.7	765.1
42.5°	11145.8	9079.4	1632.6	555.6	550.7	541.0	541.0	545.8	580.0	643.3	653.1
45°	12062.0	9454.7	1242.8	531.2	516.6	521.5	502.0	492.2	516.6	521.5	516.6
47.5°	12919.8	9830.0	994.2	502.0	487.4	487.4	463.0	443.5	443.5	399.6	394.8
50°	13723.9	10034.6	794.4	463.0	458.1	453.2	419.1	385.0	355.8	302.2	292.4
52.5°	14391.6	10024.9	614.1	414.3	428.9	414.3	360.6	311.9	268.0	219.3	209.6
55°	14591.4	9557.0	463.0	341.1	365.5	346.0	287.5	243.7	194.9	156.0	151.1
57.5°	14420.8	8845.5	350.9	263.2	282.7	263.2	219.3	180.3	136.5	107.2	97.5
60°	13850.6	8012.1	272.9	204.7	214.4	199.8	165.7	136.5	97.5	68.2	58.5
62.5°	12768.7	6969.2	209.6	160.8	156.0	156.0	126.7	102.3	68.2	39.0	34.1
65°	10478.1	5434.0	160.8	112.1	112.1	112.1	97.5	73.1	43.9	19.5	9.7
67.5°	6579.3	3162.9	131.6	87.7	82.9	82.9	68.2	48.7	24.4	4.9	0.0
70°	2475.8	1159.9	102.3	68.2	63.4	63.4	48.7	29.2	14.6	0.0	0.0
72°	852.9	443.5	82.9	48.7	48.7	43.9	34.1	24.4	9.7	0.0	0.0
72.5°	701.8	355.8	78.0	48.7	43.9	43.9	34.1	24.4	9.7	0.0	0.0
75°	253.4	146.2	53.6	34.1	29.2	29.2	24.4	14.6	4.9	0.0	0.0
77.5°	126.7	92.6	43.9	29.2	24.4	14.6	14.6	9.7	4.9	0.0	0.0
80°	78.0	58.5	24.4	19.5	14.6	9.7	4.9	4.9	0.0	0.0	0.0
82.5°	53.6	34.1	14.6	14.6	9.7	4.9	0.0	0.0	0.0	0.0	0.0
85°	34.1	14.6	9.7	9.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	9.7	4.9	0.0	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)