

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: P483376

Luminaire Tested: **IFLD-L-SA8D-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483376
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

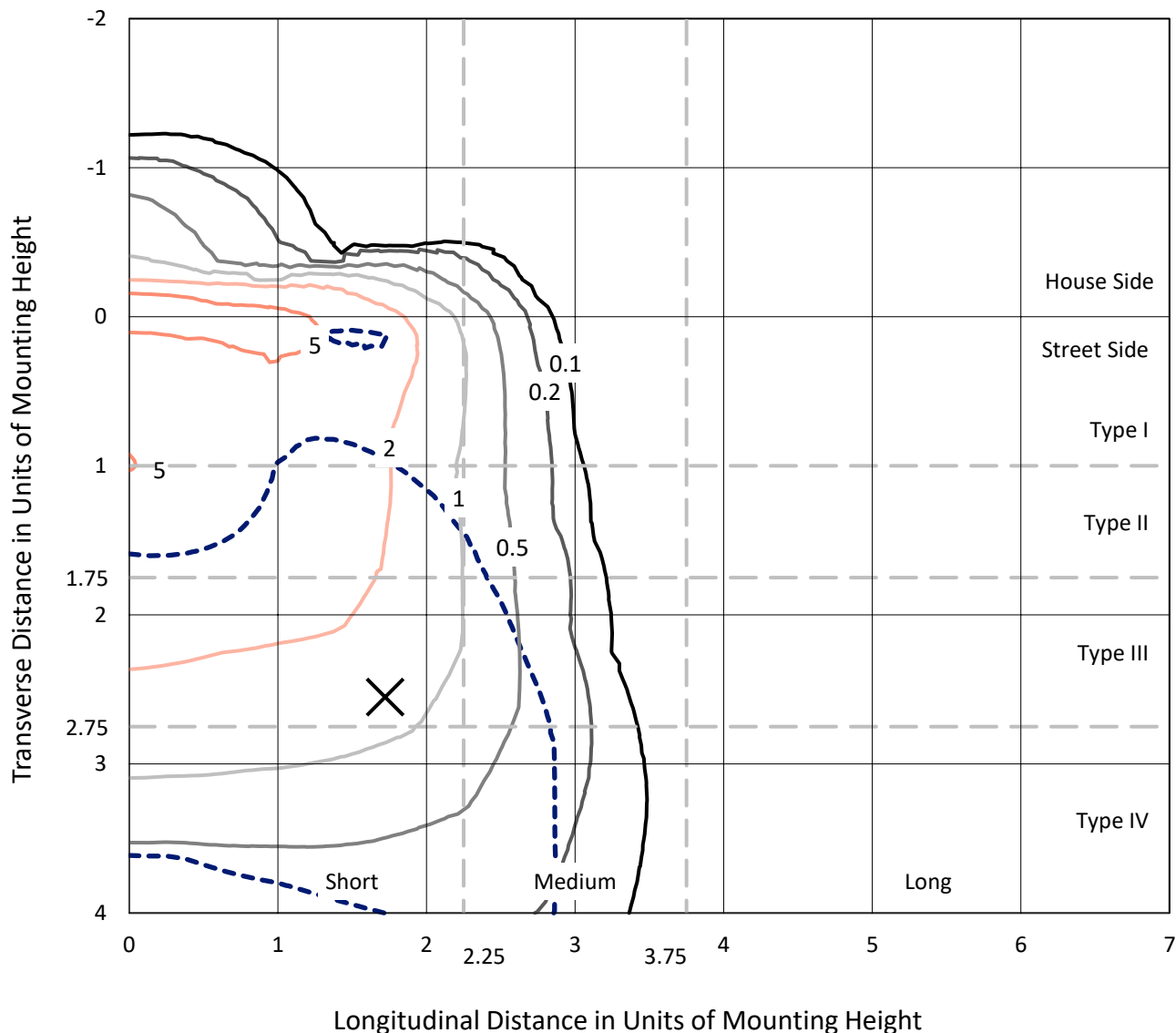
Lumens per Lamp: N/A
Luminaire Lumens: 29632.2 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

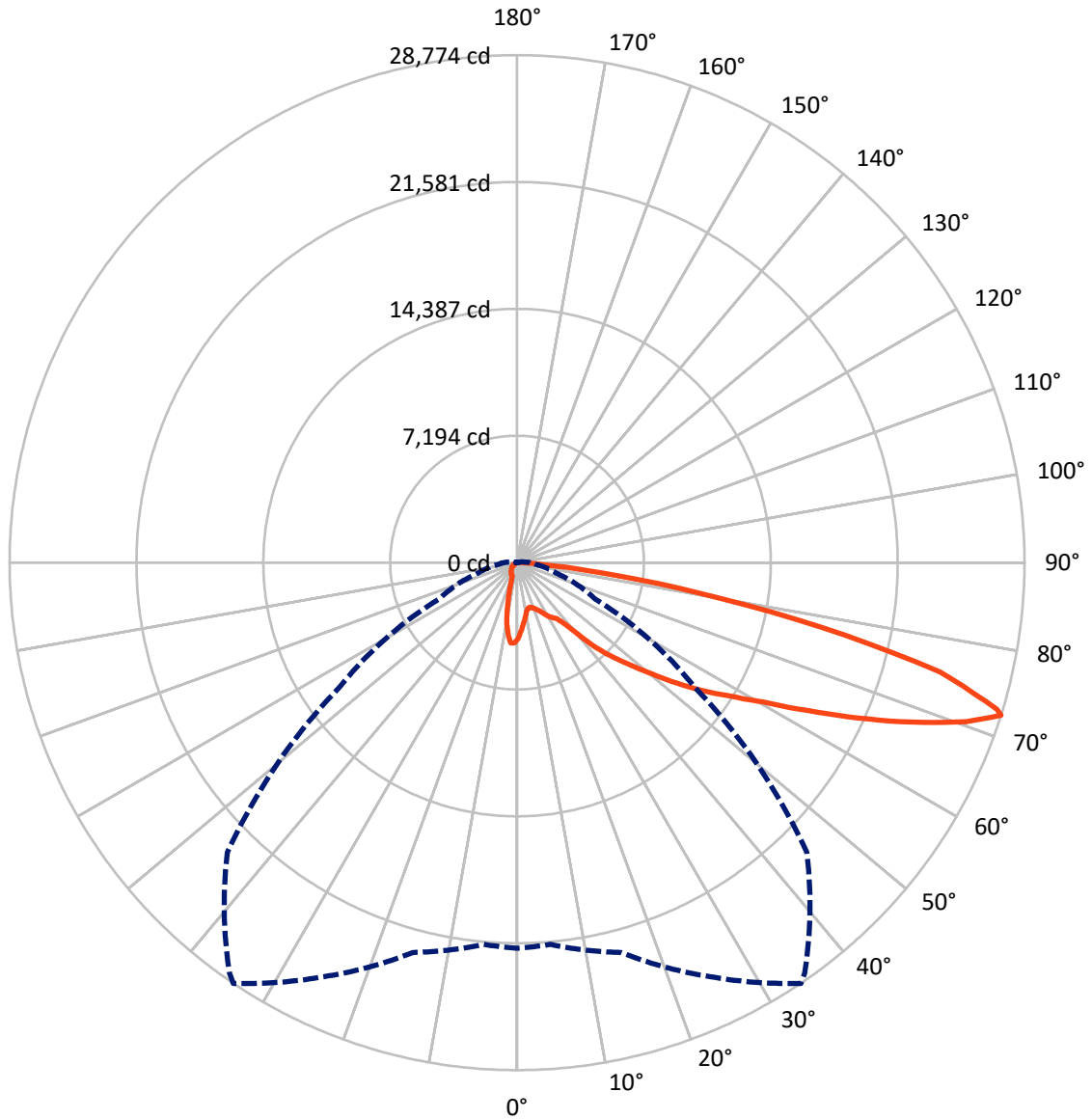
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3033.7	0.0	3033.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	26598.6	0.0	26598.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	29632.2	0.0	29632.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.3	1.3
10°-20°	852.0	2.9
20°-30°	1286.0	4.3
30°-40°	2087.0	7.0
40°-50°	3924.4	13.2
50°-60°	6416.5	21.7
60°-70°	8529.9	28.8
70°-80°	5712.4	19.3
80°-90°	447.7	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°	29632.2	100.0
0°-180°	29632.2	100.0

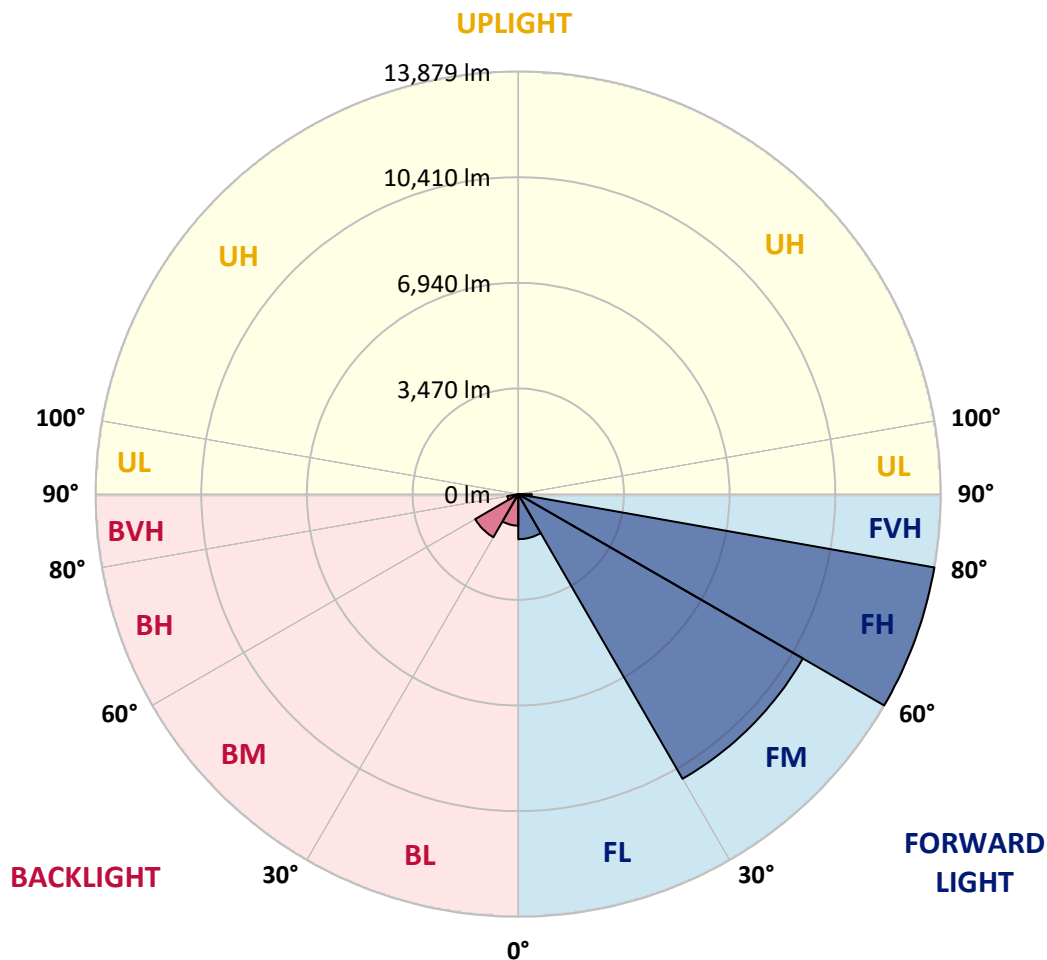


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.3	5.0			
FM (30°-60°)	10795.0	36.4			
FH (60°-80°)	13879.5	46.8			G5
FVH (80°-90°)	444.8	1.5			G3/500
BL (0°-30°)	1035.1	3.5	B3/2500		
BM (30°-60°)	1633.0	5.5	B2/2500		
BH (60°-80°)	362.8	1.2	B1/500		G1/500
BVH (80°-90°)	2.8	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°	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2
2.5°	3834.0	3825.4	3851.1	3894.0	3936.8	3919.7	4001.1	4086.8	4146.7	4228.1	4326.6
5°	3349.9	3371.4	3397.1	3482.7	3538.4	3551.3	3701.2	3812.6	3996.8	4185.3	4360.9
7.5°	2908.7	2934.4	2985.8	3080.1	3195.7	3225.7	3375.6	3598.4	3838.3	4086.8	4373.8
10°	2587.4	2613.1	2668.8	2728.8	2883.0	2883.0	3088.6	3397.1	3709.8	4001.1	4378.1
12.5°	2518.9	2531.7	2527.4	2574.6	2673.1	2694.5	2895.9	3234.3	3598.4	3971.1	4446.6
15°	2600.3	2608.8	2566.0	2540.3	2626.0	2647.4	2835.9	3135.7	3525.6	3988.2	4558.0
17.5°	2763.1	2733.1	2647.4	2608.8	2681.7	2694.5	2870.2	3131.5	3517.0	4035.3	4686.5
20°	2857.3	2891.6	2741.6	2668.8	2771.6	2788.8	2977.2	3200.0	3559.8	4116.7	4866.4
22.5°	3024.4	3041.5	2840.2	2793.0	2891.6	2891.6	3105.8	3337.1	3662.7	4249.5	5080.6
25°	3260.0	3238.6	3002.9	2955.8	3050.1	3088.6	3302.8	3555.6	3821.2	4373.8	5277.7
27.5°	3444.2	3457.0	3264.3	3140.0	3298.5	3324.2	3555.6	3791.2	3941.1	4476.6	5517.5
30°	3718.3	3692.6	3487.0	3345.7	3542.7	3547.0	3769.8	4013.9	4172.4	4660.8	5877.4
32.5°	4043.9	3992.5	3756.9	3555.6	3714.1	3752.6	3979.7	4335.2	4532.3	5007.8	6434.3
35°	4733.6	4609.4	4223.8	3911.1	3924.0	3941.1	4292.4	4802.1	5029.2	5449.0	7179.7
37.5°	5740.3	5688.9	5251.9	4656.5	4429.5	4378.1	4772.2	5419.0	5701.7	6031.6	8147.8
40°	6738.4	6665.6	6258.6	5808.8	5397.6	5294.8	5491.8	6237.2	6494.3	6841.2	9141.6
42.5°	7847.9	7719.4	7239.6	6875.5	6618.5	6507.1	6430.0	7265.3	7556.6	7792.2	10114.1
45°	8970.3	8760.4	8066.4	7788.0	7650.9	7590.9	7582.3	8559.0	8734.7	8781.8	11193.6
47.5°	9955.6	9728.5	9098.8	8786.1	8683.3	8666.1	9145.9	10049.8	9912.7	9788.5	12397.3
50°	10713.8	10568.2	10114.1	10002.7	9925.6	9895.6	11018.0	11583.4	10949.4	10730.9	13455.4
52.5°	11887.6	11562.0	11047.9	11086.5	11356.4	11360.7	12915.7	13039.9	11810.5	11377.8	14453.6
55°	12825.7	12611.5	12191.7	12136.0	12847.1	12924.3	14616.4	14145.1	12290.2	11994.7	14822.0
57.5°	13930.9	13832.4	13528.3	13536.8	14282.2	14445.0	16128.5	15079.0	12688.6	12393.1	14877.7
60°	15528.8	15246.1	15087.6	15160.4	16038.6	16197.1	17593.6	15751.6	12881.4	12654.4	14740.6
62.5°	17293.7	16963.9	16792.5	17165.2	18446.1	18471.8	18707.4	16347.0	12761.5	12722.9	13858.1
65°	19418.5	19092.9	18955.9	19705.5	21226.3	21132.0	20271.0	16599.8	12380.2	12033.2	11540.6
67.5°	21534.7	21337.7	21054.9	22250.1	24143.5	24143.5	21894.5	16505.5	11382.1	9660.0	7548.1
70°	22537.1	22674.2	23124.0	25000.3	27009.4	26803.8	23496.7	15421.7	8473.4	5187.7	2968.7
72°	21868.8	21727.5	22888.4	25899.9	28774.3	28435.9	23226.8	12260.3	4896.4	2274.7	1032.4
72.5°	20720.8	20853.6	22451.4	25775.7	28444.5	28722.9	22567.1	11309.3	4026.8	1812.1	779.7
75°	12705.8	12932.8	16758.3	21886.0	24786.1	24473.4	17456.5	5389.0	1546.5	771.1	278.4
77.5°	4639.4	4827.9	8130.7	13772.4	17627.9	17430.8	10101.2	1914.9	839.6	574.0	141.4
80°	1208.0	1306.6	2763.1	6352.9	10366.8	10379.7	4228.1	766.8	569.7	471.2	85.7
82.5°	239.9	265.6	848.2	2471.8	4845.0	4780.7	1336.5	411.2	428.4	385.5	60.0
85°	30.0	38.6	179.9	839.6	1567.9	1405.1	329.9	205.6	317.0	299.9	38.6
87.5°	4.3	4.3	42.8	192.8	329.9	321.3	68.5	64.3	141.4	184.2	21.4
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°	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2
2.5°	4382.3	4399.5	4459.4	4510.9	4570.8	4588.0	4562.3	4605.1	4545.1	4579.4	4588.0
5°	4390.9	4489.4	4600.8	4673.6	4656.5	4613.7	4579.4	4463.7	4382.3	4352.3	4416.6
7.5°	4450.9	4562.3	4682.2	4682.2	4588.0	4365.2	4151.0	3945.4	3774.0	3688.4	3761.2
10°	4528.0	4643.6	4767.9	4605.1	4253.8	3846.9	3542.7	3157.2	2895.9	2758.8	2771.6
12.5°	4630.8	4793.6	4836.4	4459.4	3876.8	3272.8	2720.2	2184.7	1936.3	1739.2	1743.5
15°	4763.6	4922.1	4793.6	4142.4	3397.1	2506.0	1842.0	1332.3	1135.2	1032.4	1032.4
17.5°	4939.2	5059.2	4780.7	3851.1	2750.2	1713.5	1130.9	899.6	856.8	839.6	839.6
20°	5144.9	5234.8	4656.5	3397.1	2043.4	1100.9	831.1	805.4	809.6	801.1	801.1
22.5°	5376.2	5406.2	4515.1	2870.2	1383.7	813.9	775.4	779.7	783.9	775.4	779.7
25°	5620.4	5539.0	4309.5	2253.3	921.0	741.1	749.7	758.2	762.5	766.8	766.8
27.5°	5894.5	5731.7	4022.5	1649.3	719.7	698.3	724.0	749.7	754.0	754.0	749.7
30°	6297.2	6027.3	3744.0	1118.1	634.0	651.1	694.0	724.0	745.4	745.4	741.1
32.5°	6807.0	6335.8	3354.2	762.5	586.9	595.4	629.7	689.7	736.8	741.1	728.2
35°	7513.8	6708.4	2947.3	608.3	552.6	556.9	578.3	625.4	706.8	732.5	728.2
37.5°	8259.2	7132.5	2441.8	548.3	526.9	522.6	535.5	574.0	646.9	711.1	715.4
40°	9051.7	7578.1	1910.6	518.3	505.5	496.9	501.2	518.3	574.0	655.4	672.6
42.5°	9797.1	7980.7	1435.1	488.4	484.1	475.5	475.5	479.8	509.8	565.5	574.0
45°	10602.4	8310.6	1092.4	466.9	454.1	458.4	441.2	432.7	454.1	458.4	454.1
47.5°	11356.4	8640.4	873.9	441.2	428.4	428.4	407.0	389.8	389.8	351.3	347.0
50°	12063.2	8820.4	698.3	407.0	402.7	398.4	368.4	338.4	312.7	265.6	257.0
52.5°	12650.1	8811.8	539.8	364.1	377.0	364.1	317.0	274.2	235.6	192.8	184.2
55°	12825.7	8400.5	407.0	299.9	321.3	304.2	252.7	214.2	171.4	137.1	132.8
57.5°	12675.8	7775.1	308.4	231.3	248.5	231.3	192.8	158.5	119.9	94.2	85.7
60°	12174.6	7042.6	239.9	179.9	188.5	175.6	145.6	119.9	85.7	60.0	51.4
62.5°	11223.6	6125.8	184.2	141.4	137.1	137.1	111.4	90.0	60.0	34.3	30.0
65°	9210.2	4776.4	141.4	98.5	98.5	98.5	85.7	64.3	38.6	17.1	8.6
67.5°	5783.1	2780.2	115.7	77.1	72.8	72.8	60.0	42.8	21.4	4.3	0.0
70°	2176.2	1019.5	90.0	60.0	55.7	55.7	42.8	25.7	12.9	0.0	0.0
72°	749.7	389.8	72.8	42.8	42.8	38.6	30.0	21.4	8.6	0.0	0.0
72.5°	616.9	312.7	68.5	42.8	38.6	38.6	30.0	21.4	8.6	0.0	0.0
75°	222.8	128.5	47.1	30.0	25.7	25.7	21.4	12.9	4.3	0.0	0.0
77.5°	111.4	81.4	38.6	25.7	21.4	12.9	12.9	8.6	4.3	0.0	0.0
80°	68.5	51.4	21.4	17.1	12.9	8.6	4.3	4.3	0.0	0.0	0.0
82.5°	47.1	30.0	12.9	12.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0
85°	30.0	12.9	8.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	8.6	4.3	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)