

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: P483375

Luminaire Tested: **IFLD-L-SA8C-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483375
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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

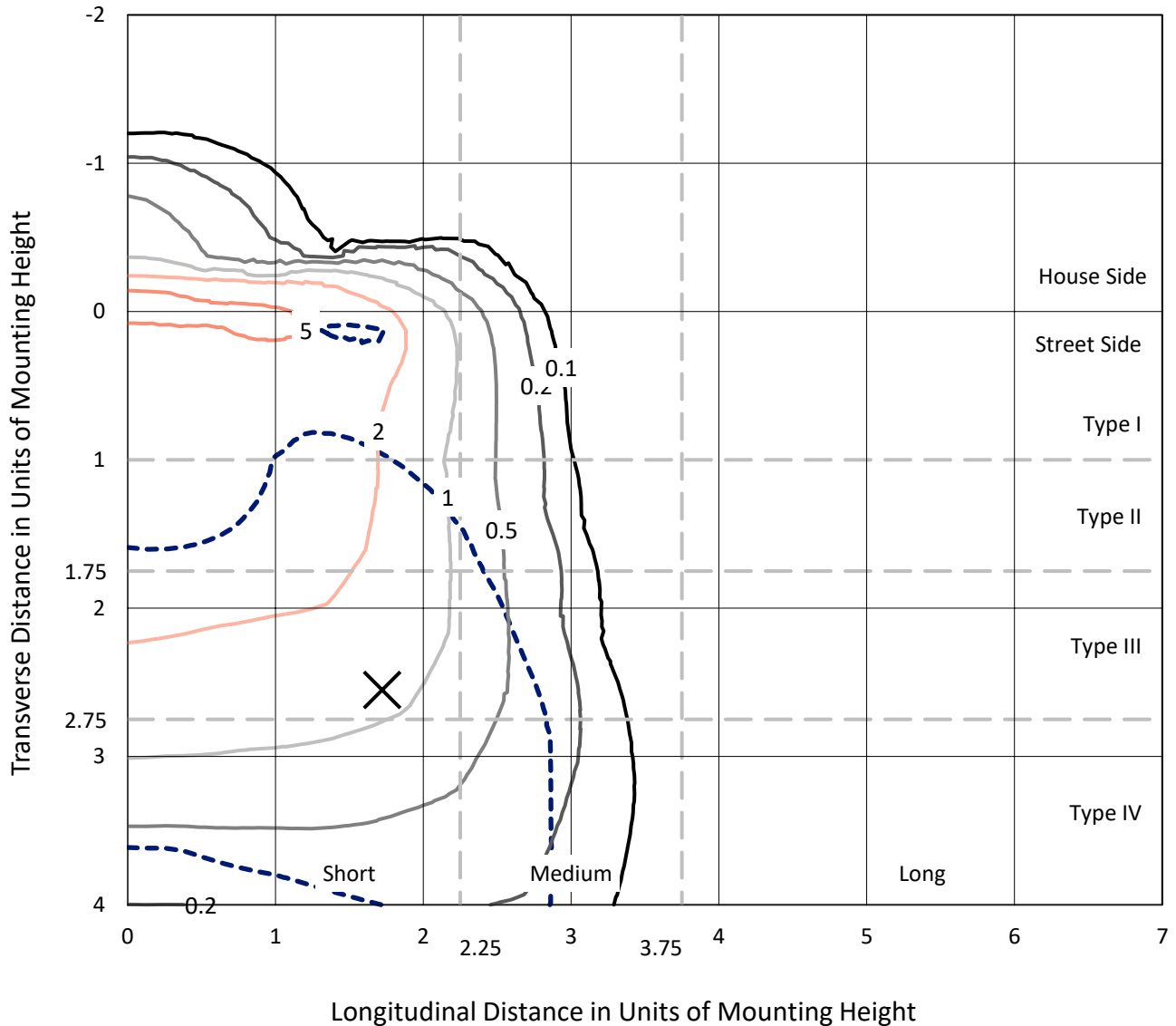
Lumens per Lamp: N/A
Luminaire Lumens: 26930 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 420.3
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

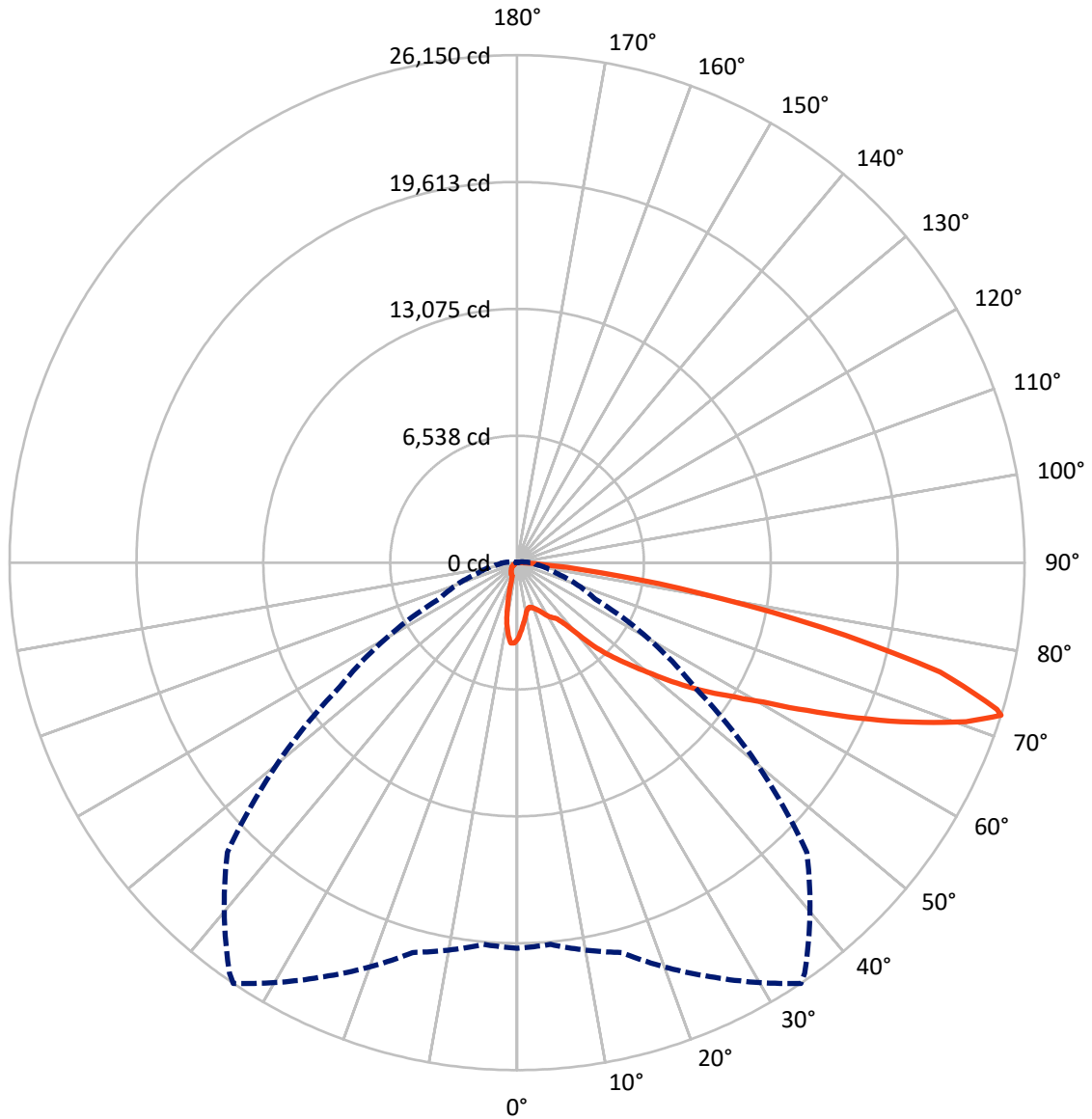
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2757.0	0.0	2757.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	24173.0	0.0	24173.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	26930.0	0.0	26930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	1.3
10°-20°	774.3	2.9
20°-30°	1168.7	4.3
30°-40°	1896.7	7.0
40°-50°	3566.6	13.2
50°-60°	5831.4	21.7
60°-70°	7752.0	28.8
70°-80°	5191.5	19.3
80°-90°	406.8	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°	26930.0	100.0
0°-180°	26930.0	100.0



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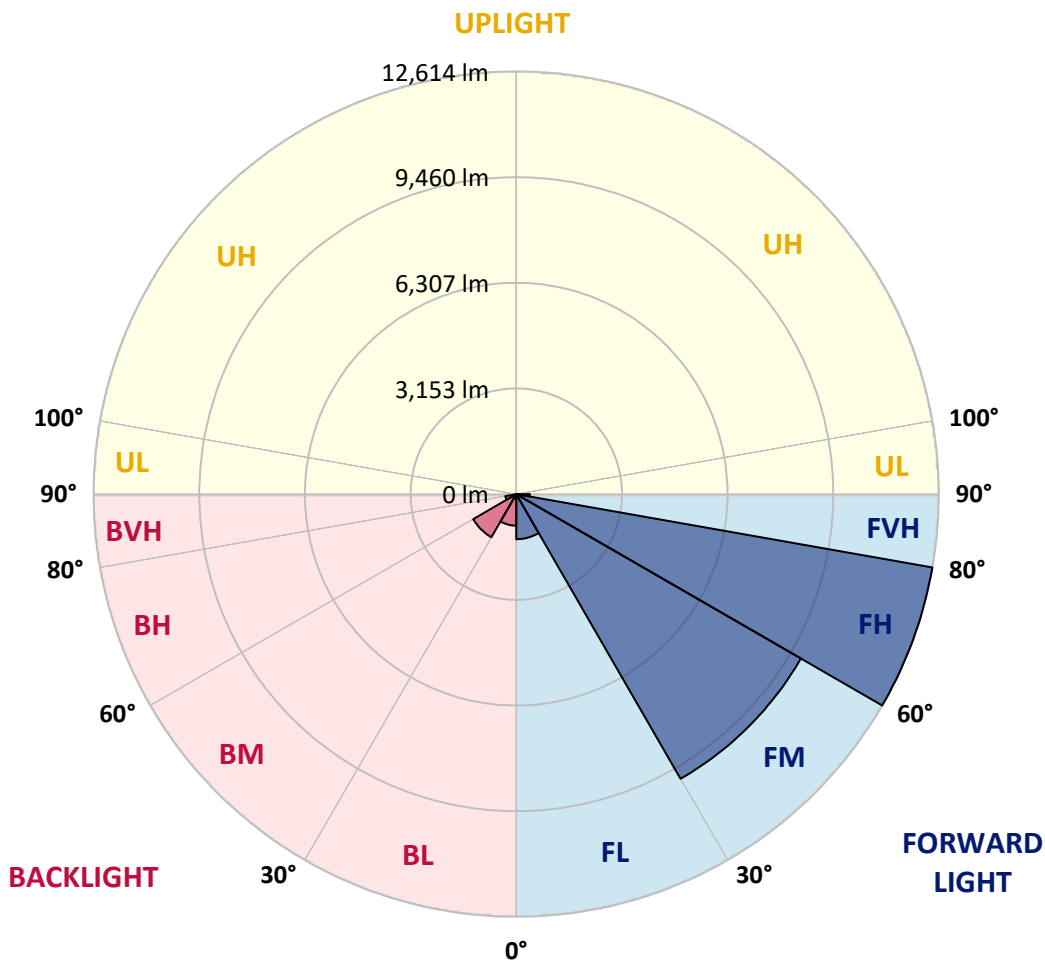
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.4	5.0			
FM (30°-60°)	9810.6	36.4			
FH (60°-80°)	12613.8	46.8			G5
FVH (80°-90°)	404.3	1.5			G3/500
BL (0°-30°)	940.7	3.5	B2/1000		
BM (30°-60°)	1484.1	5.5	B2/2500		
BH (60°-80°)	329.7	1.2	B1/500		G1/500
BVH (80°-90°)	2.6	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9
2.5°	3484.4	3476.6	3500.0	3538.9	3577.8	3562.2	3636.2	3714.1	3768.6	3842.6	3932.1
5°	3044.5	3063.9	3087.3	3165.1	3215.8	3227.4	3363.7	3464.9	3632.3	3803.6	3963.2
7.5°	2643.5	2666.8	2713.5	2799.2	2904.3	2931.6	3067.8	3270.3	3488.3	3714.1	3974.9
10°	2351.5	2374.8	2425.4	2479.9	2620.1	2620.1	2807.0	3087.3	3371.5	3636.2	3978.8
12.5°	2289.2	2300.9	2297.0	2339.8	2429.3	2448.8	2631.8	2939.3	3270.3	3609.0	4041.1
15°	2363.2	2370.9	2332.0	2308.6	2386.5	2406.0	2577.3	2849.8	3204.1	3624.5	4142.3
17.5°	2511.1	2483.8	2406.0	2370.9	2437.1	2448.8	2608.4	2845.9	3196.3	3667.4	4259.1
20°	2596.7	2627.9	2491.6	2425.4	2518.9	2534.5	2705.7	2908.2	3235.2	3741.3	4422.6
22.5°	2748.6	2764.1	2581.2	2538.3	2627.9	2627.9	2822.5	3032.8	3328.7	3862.0	4617.3
25°	2962.7	2943.2	2729.1	2686.3	2771.9	2807.0	3001.6	3231.3	3472.7	3974.9	4796.4
27.5°	3130.1	3141.8	2966.6	2853.7	2997.7	3021.1	3231.3	3445.5	3581.7	4068.4	5014.4
30°	3379.3	3355.9	3169.0	3040.6	3219.6	3223.5	3426.0	3647.9	3791.9	4235.8	5341.4
32.5°	3675.1	3628.4	3414.3	3231.3	3375.4	3410.4	3616.7	3939.9	4119.0	4551.1	5847.5
35°	4301.9	4189.0	3838.7	3554.5	3566.1	3581.7	3901.0	4364.2	4570.6	4952.1	6524.9
37.5°	5216.8	5170.1	4773.0	4231.9	4025.5	3978.8	4337.0	4924.9	5181.8	5481.6	7404.8
40°	6123.9	6057.8	5687.9	5279.1	4905.4	4812.0	4991.0	5668.4	5902.0	6217.4	8308.0
42.5°	7132.3	7015.5	6579.4	6248.5	6014.9	5913.7	5843.6	6602.8	6867.5	7081.7	9191.8
45°	8152.3	7961.5	7330.8	7077.8	6953.2	6898.7	6890.9	7778.5	7938.2	7981.0	10172.8
47.5°	9047.7	8841.4	8269.1	7984.9	7891.4	7875.9	8311.9	9133.4	9008.8	8895.9	11266.8
50°	9736.8	9604.4	9191.8	9090.5	9020.5	8993.2	10013.2	10527.1	9950.9	9752.4	12228.4
52.5°	10803.5	10507.7	10040.5	10075.5	10320.8	10324.7	11737.9	11850.8	10733.5	10340.2	13135.5
55°	11656.1	11461.5	11079.9	11029.3	11675.6	11745.7	13283.5	12855.2	11169.5	10900.9	13470.3
57.5°	12660.6	12571.0	12294.6	12302.4	12979.8	13127.8	14657.8	13703.9	11531.6	11262.9	13521.0
60°	14112.7	13855.8	13711.7	13777.9	14576.0	14720.1	15989.2	14315.2	11706.7	11500.4	13396.4
62.5°	15716.7	15416.9	15261.2	15599.9	16764.0	16787.3	17001.4	14856.3	11597.7	11562.7	12594.4
65°	17647.7	17351.8	17227.3	17908.6	19290.6	19205.0	18422.5	15086.0	11251.2	10935.9	10488.2
67.5°	19570.9	19391.9	19134.9	20221.1	21941.9	21941.9	19898.0	15000.4	10344.1	8779.1	6859.8
70°	20481.9	20606.5	21015.3	22720.5	24546.4	24359.5	21354.0	14015.4	7700.7	4714.6	2698.0
72°	19874.6	19746.1	20801.2	23538.1	26150.4	25842.8	21108.7	11142.2	4449.9	2067.3	938.3
72.5°	18831.2	18951.9	20404.1	23425.2	25850.6	26103.7	20509.2	10278.0	3659.6	1646.8	708.6
75°	11547.1	11753.5	15230.1	19890.2	22525.9	22241.6	15864.6	4897.6	1405.4	700.8	253.1
77.5°	4216.3	4387.6	7389.2	12516.5	16020.4	15841.3	9180.1	1740.2	763.1	521.7	128.5
80°	1097.9	1187.4	2511.1	5773.6	9421.5	9433.1	3842.6	696.9	517.8	428.2	77.9
82.5°	218.0	241.4	770.8	2246.4	4403.2	4344.8	1214.7	373.7	389.3	350.4	54.5
85°	27.3	35.0	163.5	763.1	1424.9	1277.0	299.8	186.9	288.1	272.5	35.0
87.5°	3.9	3.9	38.9	175.2	299.8	292.0	62.3	58.4	128.5	167.4	19.5
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°	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9	3939.9
2.5°	3982.7	3998.3	4052.8	4099.5	4154.0	4169.6	4146.2	4185.2	4130.6	4161.8	4169.6
5°	3990.5	4080.0	4181.3	4247.4	4231.9	4192.9	4161.8	4056.7	3982.7	3955.5	4013.9
7.5°	4045.0	4146.2	4255.2	4255.2	4169.6	3967.1	3772.5	3585.6	3429.9	3352.0	3418.2
10°	4115.1	4220.2	4333.1	4185.2	3865.9	3496.1	3219.6	2869.3	2631.8	2507.2	2518.9
12.5°	4208.5	4356.5	4395.4	4052.8	3523.3	2974.4	2472.2	1985.5	1759.7	1580.6	1584.5
15°	4329.2	4473.2	4356.5	3764.7	3087.3	2277.5	1674.1	1210.8	1031.7	938.3	938.3
17.5°	4488.8	4597.8	4344.8	3500.0	2499.4	1557.3	1027.8	817.6	778.6	763.1	763.1
20°	4675.7	4757.4	4231.9	3087.3	1857.0	1000.5	755.3	731.9	735.8	728.0	728.0
22.5°	4885.9	4913.2	4103.4	2608.4	1257.5	739.7	704.7	708.6	712.4	704.7	708.6
25°	5107.8	5033.9	3916.5	2047.8	837.0	673.5	681.3	689.1	693.0	696.9	696.9
27.5°	5357.0	5209.1	3655.7	1498.9	654.1	634.6	657.9	681.3	685.2	685.2	681.3
30°	5723.0	5477.7	3402.6	1016.1	576.2	591.8	630.7	657.9	677.4	677.4	673.5
32.5°	6186.2	5758.0	3048.3	693.0	533.4	541.1	572.3	626.8	669.6	673.5	661.8
35°	6828.6	6096.7	2678.5	552.8	502.2	506.1	525.6	568.4	642.4	665.7	661.8
37.5°	7506.0	6482.1	2219.1	498.3	478.9	475.0	486.6	521.7	587.9	646.3	650.2
40°	8226.3	6887.0	1736.4	471.1	459.4	451.6	455.5	471.1	521.7	595.7	611.2
42.5°	8903.7	7253.0	1304.2	443.8	439.9	432.1	432.1	436.0	463.3	513.9	521.7
45°	9635.6	7552.7	992.8	424.4	412.7	416.6	401.0	393.2	412.7	416.6	412.7
47.5°	10320.8	7852.5	794.2	401.0	389.3	389.3	369.9	354.3	354.3	319.2	315.3
50°	10963.2	8016.0	634.6	369.9	366.0	362.1	334.8	307.6	284.2	241.4	233.6
52.5°	11496.5	8008.2	490.5	330.9	342.6	330.9	288.1	249.2	214.1	175.2	167.4
55°	11656.1	7634.5	369.9	272.5	292.0	276.4	229.7	194.7	155.7	124.6	120.7
57.5°	11519.9	7066.1	280.3	210.2	225.8	210.2	175.2	144.0	109.0	85.6	77.9
60°	11064.4	6400.4	218.0	163.5	171.3	159.6	132.4	109.0	77.9	54.5	46.7
62.5°	10200.1	5567.2	167.4	128.5	124.6	124.6	101.2	81.8	54.5	31.1	27.3
65°	8370.3	4340.9	128.5	89.5	89.5	89.5	77.9	58.4	35.0	15.6	7.8
67.5°	5255.8	2526.7	105.1	70.1	66.2	66.2	54.5	38.9	19.5	3.9	0.0
70°	1977.7	926.6	81.8	54.5	50.6	50.6	38.9	23.4	11.7	0.0	0.0
72°	681.3	354.3	66.2	38.9	38.9	35.0	27.3	19.5	7.8	0.0	0.0
72.5°	560.6	284.2	62.3	38.9	35.0	35.0	27.3	19.5	7.8	0.0	0.0
75°	202.4	116.8	42.8	27.3	23.4	23.4	19.5	11.7	3.9	0.0	0.0
77.5°	101.2	74.0	35.0	23.4	19.5	11.7	11.7	7.8	3.9	0.0	0.0
80°	62.3	46.7	19.5	15.6	11.7	7.8	3.9	3.9	0.0	0.0	0.0
82.5°	42.8	27.3	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	27.3	11.7	7.8	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	7.8	3.9	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)