

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: P483180

Luminaire Tested: **IFLD-L-SA8C-730-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483180
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

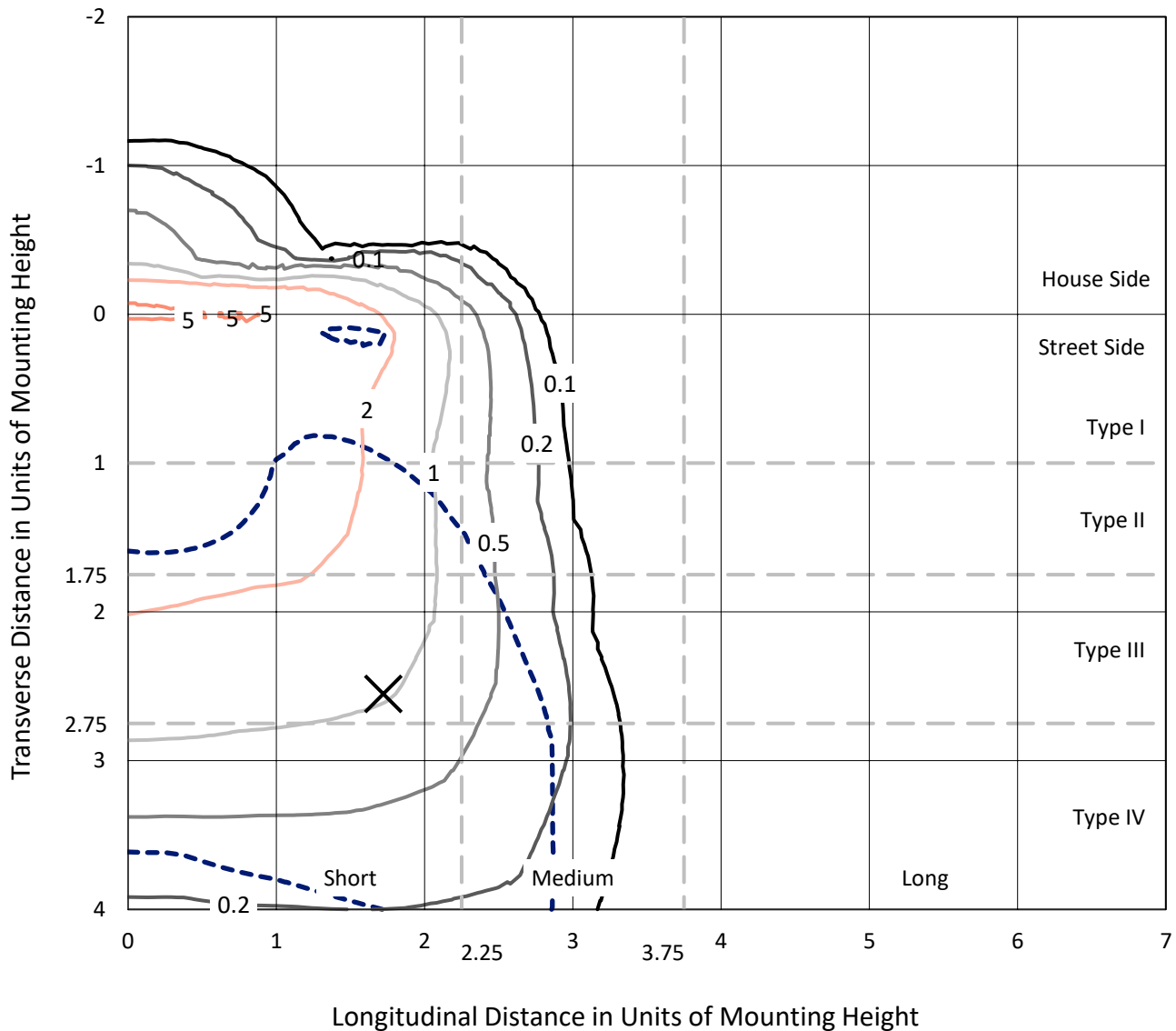
Lumens per Lamp: N/A
Luminaire Lumens: 33359.4 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

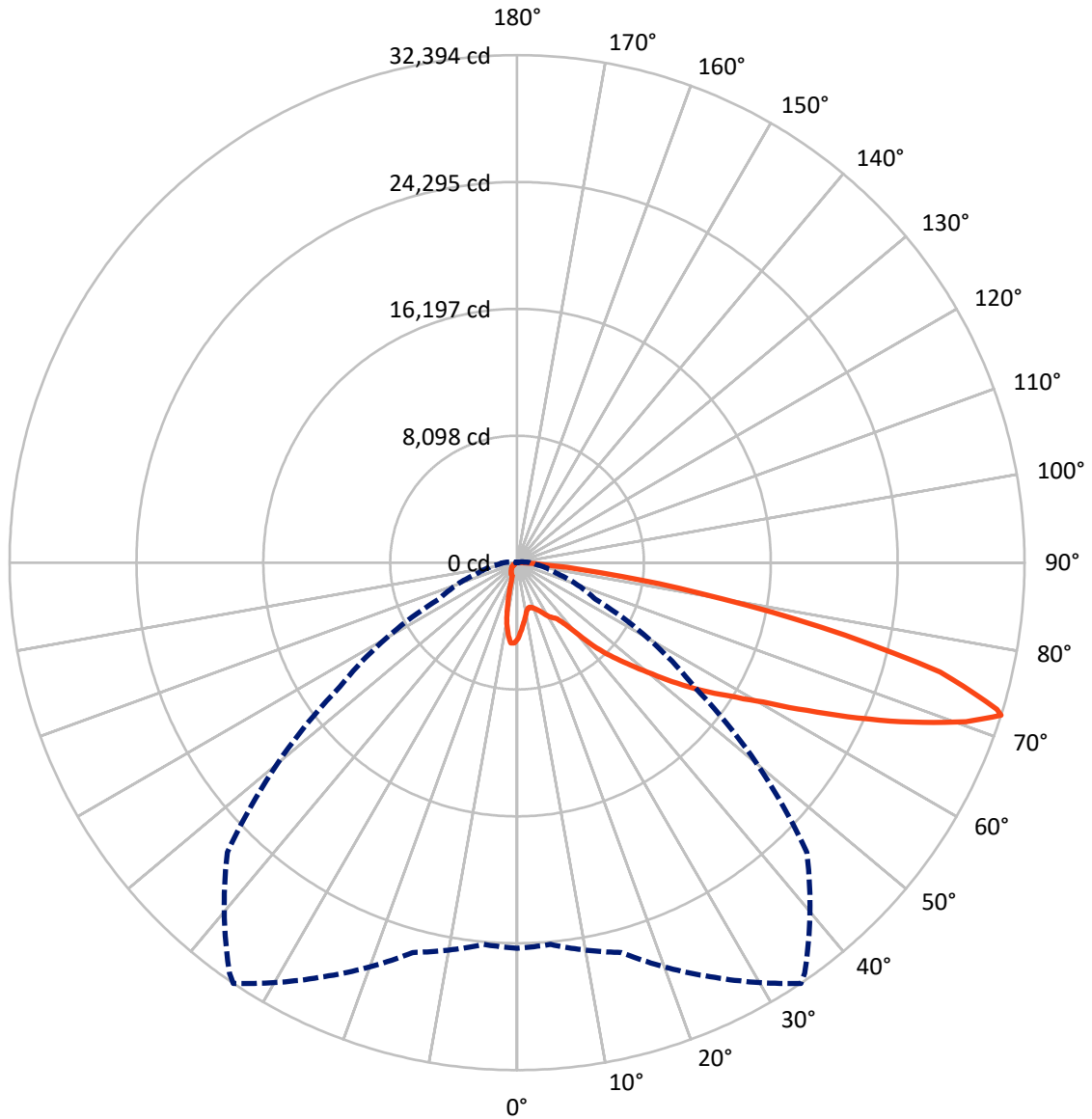
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	3415.2	0.0	3415.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	29944.2	0.0	29944.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	33359.4	0.0	33359.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	1.3
10°-20°	959.2	2.9
20°-30°	1447.8	4.3
30°-40°	2349.5	7.0
40°-50°	4418.1	13.2
50°-60°	7223.6	21.7
60°-70°	9602.8	28.8
70°-80°	6430.9	19.3
80°-90°	504.0	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°	33359.4	100.0
0°-180°	33359.4	100.0

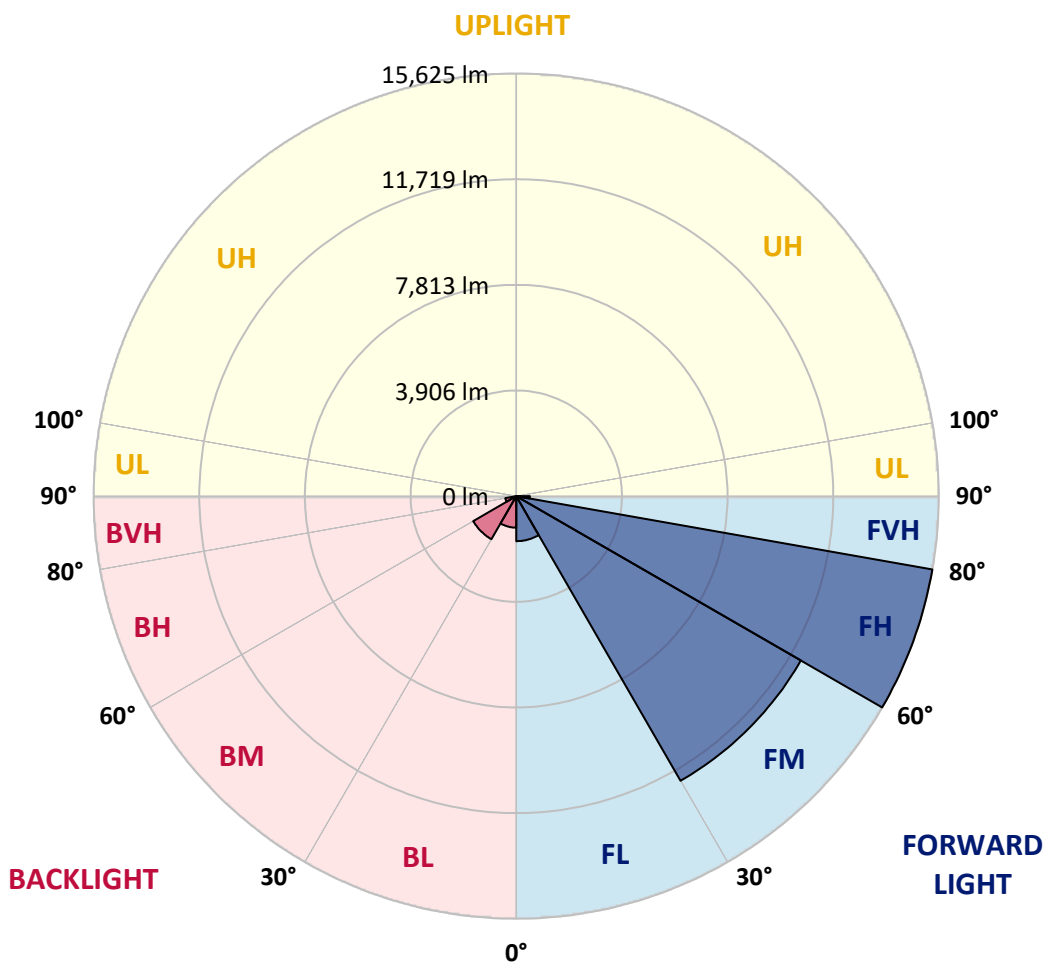


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1665.4	5.0			
FM (30°-60°)	12152.8	36.4			
FH (60°-80°)	15625.3	46.8			G5
FVH (80°-90°)	500.8	1.5			G4/750
BL (0°-30°)	1165.3	3.5	B3/2500		
BM (30°-60°)	1838.4	5.5	B2/2500		
BH (60°-80°)	408.4	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°	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5
2.5°	4316.3	4306.6	4335.5	4383.8	4432.0	4412.7	4504.3	4600.8	4668.3	4759.9	4870.9
5°	3771.3	3795.4	3824.3	3920.8	3983.5	3998.0	4166.8	4292.1	4499.5	4711.7	4909.4
7.5°	3274.6	3303.5	3361.4	3467.5	3597.7	3631.4	3800.2	4051.0	4321.1	4600.8	4923.9
10°	2912.9	2941.8	3004.5	3072.0	3245.6	3245.6	3477.1	3824.3	4176.4	4504.3	4928.7
12.5°	2835.7	2850.2	2845.4	2898.4	3009.3	3033.4	3260.1	3641.1	4051.0	4470.6	5005.9
15°	2927.3	2937.0	2888.8	2859.8	2956.3	2980.4	3192.6	3530.2	3969.0	4489.9	5131.3
17.5°	3110.6	3076.8	2980.4	2937.0	3019.0	3033.4	3231.2	3525.3	3959.4	4542.9	5276.0
20°	3216.7	3255.3	3086.5	3004.5	3120.2	3139.5	3351.7	3602.5	4007.6	4634.5	5478.5
22.5°	3404.8	3424.1	3197.4	3144.4	3255.3	3255.3	3496.4	3756.8	4123.3	4784.0	5719.6
25°	3670.0	3645.9	3380.7	3327.6	3433.7	3477.1	3718.2	4002.8	4301.8	4923.9	5941.5
27.5°	3877.4	3891.9	3674.8	3535.0	3713.4	3742.4	4002.8	4268.0	4436.8	5039.6	6211.5
30°	4186.0	4157.1	3925.6	3766.5	3988.3	3993.1	4243.9	4518.8	4697.2	5247.0	6616.6
32.5°	4552.6	4494.7	4229.4	4002.8	4181.2	4224.6	4480.2	4880.5	5102.3	5637.7	7243.6
35°	5329.0	5189.2	4755.1	4403.1	4417.5	4436.8	4832.3	5406.2	5661.8	6134.4	8082.7
37.5°	6462.3	6404.5	5912.5	5242.2	4986.6	4928.7	5372.4	6100.6	6418.9	6790.3	9172.6
40°	7586.0	7504.0	7045.9	6539.5	6076.5	5960.8	6182.6	7021.7	7311.1	7701.7	10291.5
42.5°	8835.1	8690.4	8150.2	7740.3	7451.0	7325.6	7238.8	8179.2	8507.1	8772.4	11386.2
45°	10098.6	9862.3	9081.0	8767.5	8613.2	8545.7	8536.1	9635.6	9833.3	9886.4	12601.5
47.5°	11207.8	10952.2	10243.3	9891.2	9775.5	9756.2	10296.3	11313.9	11159.6	11019.7	13956.7
50°	12061.4	11897.4	11386.2	11260.8	11174.0	11140.3	12403.8	13040.4	12326.6	12080.7	15147.9
52.5°	13382.8	13016.3	12437.6	12481.0	12784.8	12789.6	14540.2	14680.1	13296.0	12808.9	16271.6
55°	14439.0	14197.8	13725.2	13662.5	14463.1	14549.9	16454.8	15924.3	13836.1	13503.4	16686.3
57.5°	15683.2	15572.3	15229.9	15239.5	16078.6	16261.9	18157.2	16975.7	14284.6	13951.9	16749.0
60°	17482.0	17163.7	16985.3	17067.3	18055.9	18234.4	19806.5	17732.8	14501.6	14246.1	16594.7
62.5°	19469.0	19097.6	18904.7	19324.3	20766.2	20795.2	21060.4	18403.2	14366.6	14323.2	15601.2
65°	21861.0	21494.5	21340.1	22184.1	23896.1	23790.0	22820.7	18687.7	13937.4	13546.8	12992.2
67.5°	24243.4	24021.5	23703.2	25048.7	27180.3	27180.3	24648.5	18581.6	12813.7	10875.0	8497.5
70°	25371.9	25526.2	26032.6	28144.9	30406.7	30175.2	26452.1	17361.5	9539.2	5840.2	3342.1
72°	24619.5	24460.4	25767.3	29157.6	32393.6	32012.6	26148.3	13802.4	5512.3	2560.8	1162.3
72.5°	23327.1	23476.6	25275.4	29017.8	32022.3	32335.7	25405.6	12731.7	4533.3	2040.0	877.7
75°	14303.9	14559.5	18866.1	24638.8	27903.7	27551.7	19652.2	6066.9	1741.0	868.1	313.5
77.5°	5222.9	5435.1	9153.4	15504.8	19845.1	19623.3	11371.8	2155.7	945.2	646.2	159.1
80°	1360.0	1470.9	3110.6	7152.0	11670.8	11685.2	4759.9	863.3	641.4	530.5	96.5
82.5°	270.1	299.0	954.9	2782.7	5454.4	5382.1	1504.7	463.0	482.3	434.0	67.5
85°	33.8	43.4	202.6	945.2	1765.1	1581.8	371.3	231.5	356.9	337.6	43.4
87.5°	4.8	4.8	48.2	217.0	371.3	361.7	77.2	72.3	159.1	207.4	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°	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5	4880.5
2.5°	4933.6	4952.8	5020.4	5078.2	5145.7	5165.0	5136.1	5184.3	5116.8	5155.4	5165.0
5°	4943.2	5054.1	5179.5	5261.5	5242.2	5194.0	5155.4	5025.2	4933.6	4899.8	4972.1
7.5°	5010.7	5136.1	5271.1	5271.1	5165.0	4914.3	4673.1	4441.6	4248.7	4152.3	4234.3
10°	5097.5	5227.7	5367.6	5184.3	4788.9	4330.7	3988.3	3554.3	3260.1	3105.8	3120.2
12.5°	5213.3	5396.5	5444.7	5020.4	4364.5	3684.5	3062.4	2459.5	2179.8	1958.0	1962.8
15°	5362.8	5541.2	5396.5	4663.5	3824.3	2821.2	2073.7	1499.8	1278.0	1162.3	1162.3
17.5°	5560.5	5695.5	5382.1	4335.5	3096.1	1929.1	1273.2	1012.8	964.5	945.2	945.2
20°	5792.0	5893.3	5242.2	3824.3	2300.4	1239.4	935.6	906.7	911.5	901.8	901.8
22.5°	6052.4	6086.2	5083.1	3231.2	1557.7	916.3	872.9	877.7	882.5	872.9	877.7
25°	6327.3	6235.7	4851.6	2536.7	1036.9	834.3	844.0	853.6	858.4	863.3	863.3
27.5°	6635.9	6452.7	4528.5	1856.7	810.2	786.1	815.0	844.0	848.8	848.8	844.0
30°	7089.3	6785.4	4215.0	1258.7	713.7	733.0	781.3	815.0	839.1	839.1	834.3
32.5°	7663.2	7132.7	3776.1	858.4	660.7	670.3	708.9	776.4	829.5	834.3	819.8
35°	8458.9	7552.2	3318.0	684.8	622.1	626.9	651.1	704.1	795.7	824.7	819.8
37.5°	9298.0	8029.7	2748.9	617.3	593.2	588.4	602.8	646.2	728.2	800.6	805.4
40°	10190.2	8531.2	2150.9	583.5	569.1	559.4	564.2	583.5	646.2	737.9	757.2
42.5°	11029.4	8984.6	1615.6	549.8	545.0	535.3	535.3	540.1	573.9	636.6	646.2
45°	11936.0	9355.9	1229.8	525.7	511.2	516.0	496.7	487.1	511.2	516.0	511.2
47.5°	12784.8	9727.2	983.8	496.7	482.3	482.3	458.1	438.9	438.9	395.5	390.6
50°	13580.5	9929.8	786.1	458.1	453.3	448.5	414.7	381.0	352.1	299.0	289.4
52.5°	14241.2	9920.2	607.7	409.9	424.4	409.9	356.9	308.6	265.2	217.0	207.4
55°	14439.0	9457.2	458.1	337.6	361.7	342.4	284.5	241.1	192.9	154.3	149.5
57.5°	14270.2	8753.1	347.2	260.4	279.7	260.4	217.0	178.4	135.0	106.1	96.5
60°	13705.9	7928.4	270.1	202.6	212.2	197.7	164.0	135.0	96.5	67.5	57.9
62.5°	12635.3	6896.4	207.4	159.1	154.3	154.3	125.4	101.3	67.5	38.6	33.8
65°	10368.7	5377.2	159.1	110.9	110.9	110.9	96.5	72.3	43.4	19.3	9.6
67.5°	6510.6	3129.9	130.2	86.8	82.0	82.0	67.5	48.2	24.1	4.8	0.0
70°	2449.9	1147.8	101.3	67.5	62.7	62.7	48.2	28.9	14.5	0.0	0.0
72°	844.0	438.9	82.0	48.2	48.2	43.4	33.8	24.1	9.6	0.0	0.0
72.5°	694.5	352.1	77.2	48.2	43.4	43.4	33.8	24.1	9.6	0.0	0.0
75°	250.8	144.7	53.0	33.8	28.9	28.9	24.1	14.5	4.8	0.0	0.0
77.5°	125.4	91.6	43.4	28.9	24.1	14.5	14.5	9.6	4.8	0.0	0.0
80°	77.2	57.9	24.1	19.3	14.5	9.6	4.8	4.8	0.0	0.0	0.0
82.5°	53.0	33.8	14.5	14.5	9.6	4.8	0.0	0.0	0.0	0.0	0.0
85°	33.8	14.5	9.6	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.5	9.6	4.8	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)