

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: P483243

Luminaire Tested: **IFLD-S-SA6C-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483243
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

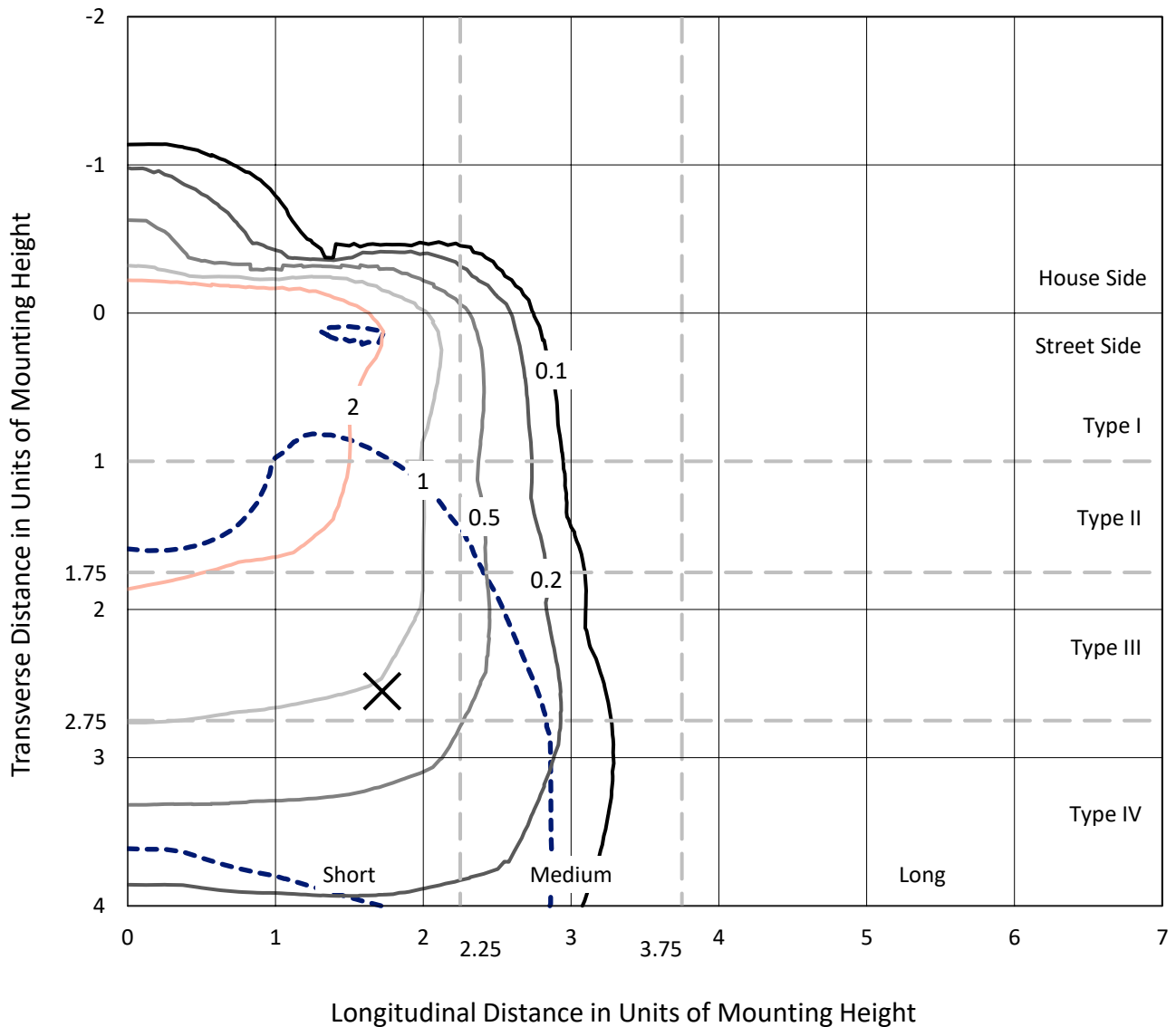
Lumens per Lamp: N/A
Luminaire Lumens: 30045.6 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

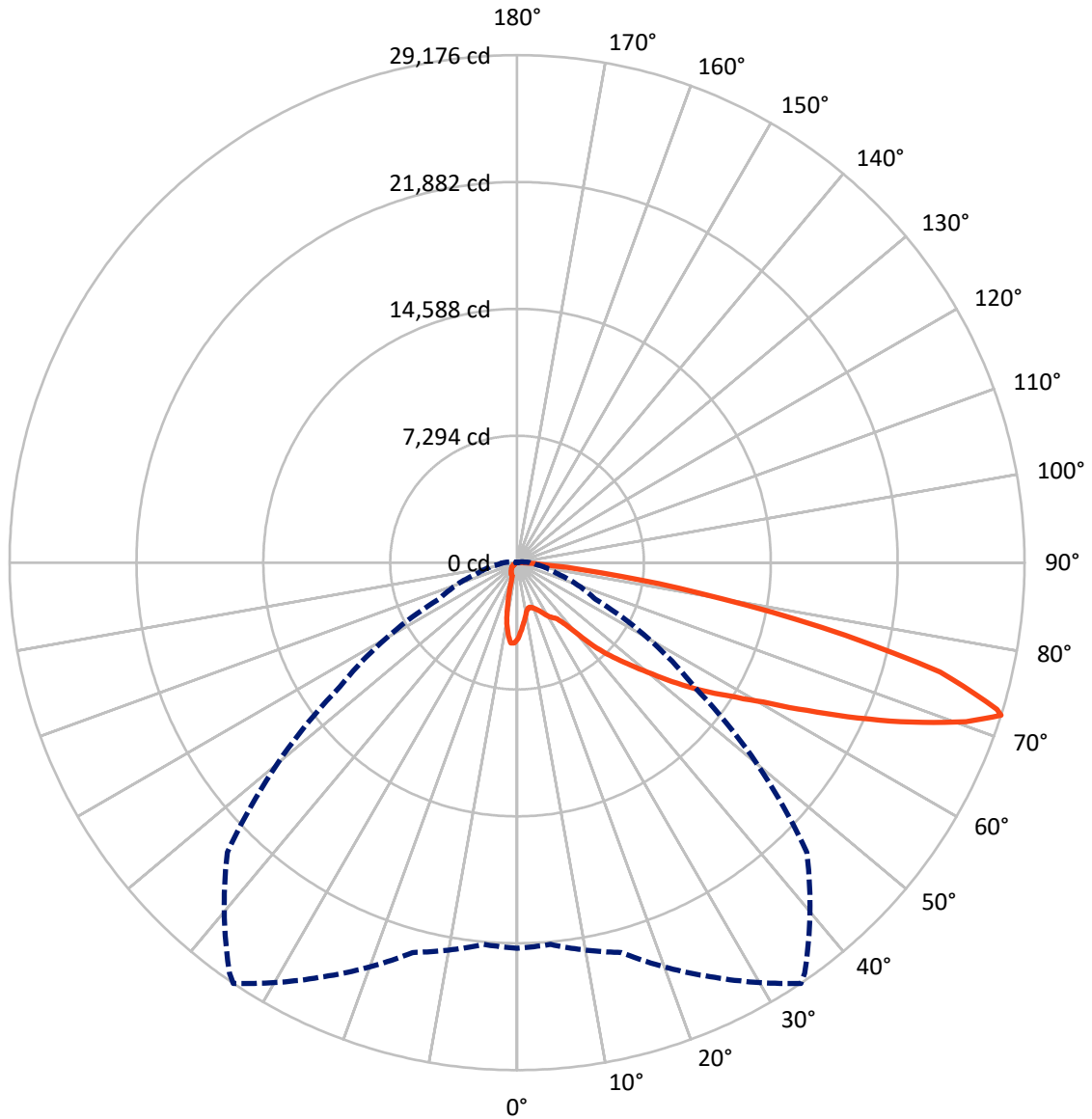
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	3076.0	0.0	3076.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	26969.6	0.0	26969.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	30045.6	0.0	30045.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	1.3
10°-20°	863.9	2.9
20°-30°	1304.0	4.3
30°-40°	2116.1	7.0
40°-50°	3979.2	13.2
50°-60°	6506.0	21.7
60°-70°	8648.9	28.8
70°-80°	5792.1	19.3
80°-90°	453.9	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°	30045.6	100.0
0°-180°	30045.6	100.0



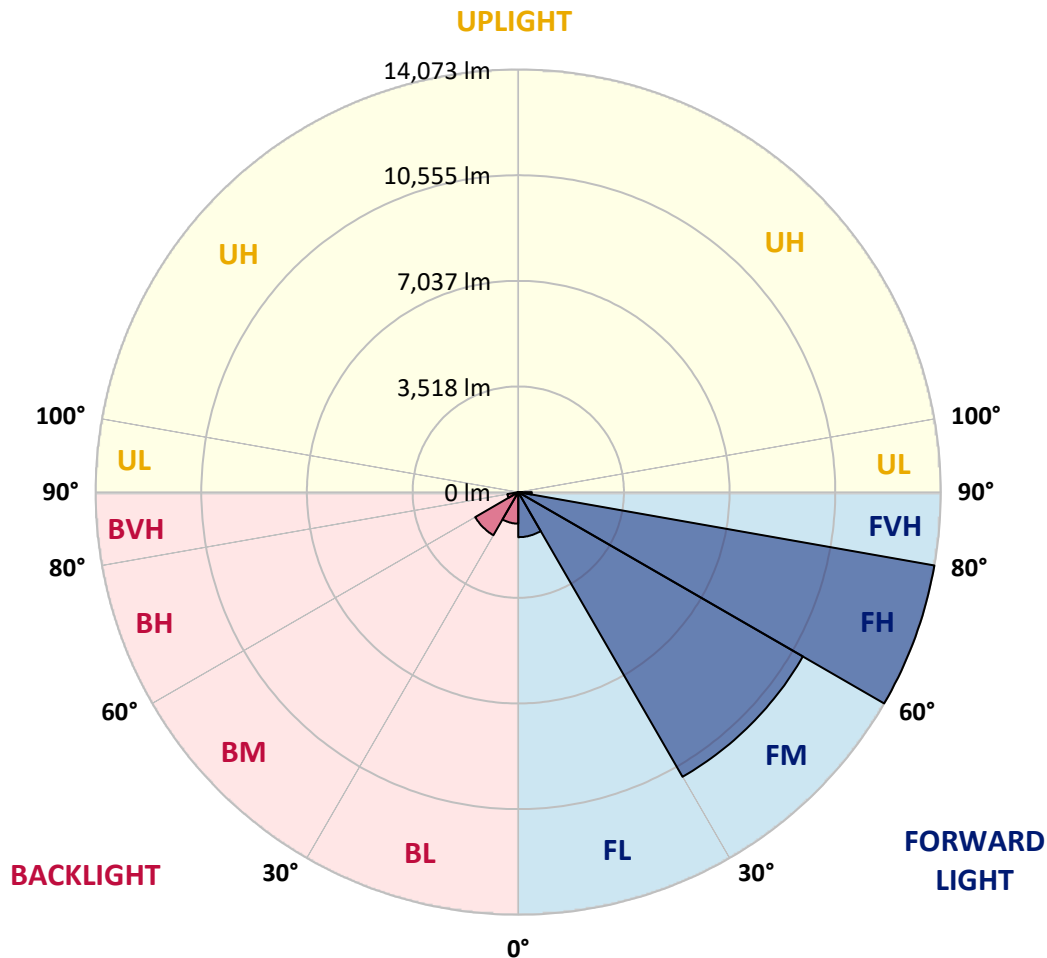
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1499.9	5.0			
FM (30°-60°)	10945.6	36.4			
FH (60°-80°)	14073.1	46.8			G5
FVH (80°-90°)	451.0	1.5			G3/500
BL (0°-30°)	1049.5	3.5	B3/2500		
BM (30°-60°)	1655.8	5.5	B2/2500		
BH (60°-80°)	367.8	1.2	B1/500		G1/500
BVH (80°-90°)	2.9	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°	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7
2.5°	3887.5	3878.8	3904.9	3948.3	3991.7	3974.4	4056.9	4143.8	4204.6	4287.1	4387.0
5°	3396.7	3418.4	3444.5	3531.3	3587.8	3600.8	3752.8	3865.8	4052.6	4243.7	4421.8
7.5°	2949.3	2975.3	3027.5	3123.0	3240.3	3270.7	3422.7	3648.6	3891.8	4143.8	4434.8
10°	2623.5	2649.6	2706.0	2766.9	2923.2	2923.2	3131.7	3444.5	3761.5	4056.9	4439.1
12.5°	2554.0	2567.1	2562.7	2610.5	2710.4	2732.1	2936.3	3279.4	3648.6	4026.5	4508.6
15°	2636.5	2645.2	2601.8	2575.7	2662.6	2684.3	2875.4	3179.5	3574.8	4043.9	4621.6
17.5°	2801.6	2771.2	2684.3	2645.2	2719.1	2732.1	2910.2	3175.2	3566.1	4091.6	4751.9
20°	2897.2	2931.9	2779.9	2706.0	2810.3	2827.7	3018.8	3244.6	3609.5	4174.2	4934.3
22.5°	3066.6	3083.9	2879.8	2832.0	2931.9	2931.9	3149.1	3383.6	3713.8	4308.8	5151.5
25°	3305.5	3283.7	3044.8	2997.1	3092.6	3131.7	3348.9	3605.2	3874.5	4434.8	5351.3
27.5°	3492.2	3505.3	3309.8	3183.8	3344.6	3370.6	3605.2	3844.1	3996.1	4539.0	5594.5
30°	3770.2	3744.2	3535.7	3392.3	3592.1	3596.5	3822.3	4069.9	4230.6	4725.8	5959.4
32.5°	4100.3	4048.2	3809.3	3605.2	3765.9	3805.0	4035.2	4395.7	4595.5	5077.6	6524.0
35°	4799.6	4673.7	4282.8	3965.7	3978.7	3996.1	4352.3	4869.1	5099.4	5525.0	7279.8
37.5°	5820.4	5768.3	5325.2	4721.5	4491.3	4439.1	4838.7	5494.6	5781.3	6115.8	8261.5
40°	6832.4	6758.6	6346.0	5889.9	5472.9	5368.7	5568.5	6324.2	6584.9	6936.7	9269.2
42.5°	7957.4	7827.1	7340.6	6971.4	6710.8	6597.9	6519.7	7366.7	7662.1	7901.0	10255.2
45°	9095.4	8882.6	8178.9	7896.6	7757.6	7696.8	7688.1	8678.5	8856.5	8904.3	11349.8
47.5°	10094.5	9864.3	9225.7	8908.7	8804.4	8787.0	9273.5	10190.0	10051.0	9925.1	12570.3
50°	10863.3	10715.6	10255.2	10142.2	10064.1	10033.7	11171.7	11745.0	11102.2	10880.7	13643.2
52.5°	12053.4	11723.3	11202.1	11241.2	11514.8	11519.2	13095.9	13221.8	11975.2	11536.5	14655.2
55°	13004.7	12787.5	12361.8	12305.3	13026.4	13104.6	14820.3	14342.5	12461.7	12162.0	15028.8
57.5°	14125.3	14025.4	13717.0	13725.7	14481.5	14646.5	16353.6	15289.4	12865.7	12566.0	15085.2
60°	15745.5	15458.8	15298.1	15371.9	16262.3	16423.0	17839.1	15971.3	13061.1	12830.9	14946.2
62.5°	17535.0	17200.5	17026.8	17404.7	18703.4	18729.5	18968.4	16575.1	12939.5	12900.4	14051.5
65°	19689.4	19359.3	19220.3	19980.4	21522.4	21426.8	20553.8	16831.3	12552.9	12201.1	11701.6
67.5°	21835.1	21635.3	21348.7	22560.5	24480.4	24480.4	22200.0	16735.8	11540.9	9794.8	7653.4
70°	22851.5	22990.5	23446.6	25349.1	27386.2	27177.7	23824.5	15636.9	8591.6	5260.1	3010.1
72°	22173.9	22030.6	23207.7	26261.2	29175.8	28832.6	23550.9	12431.3	4964.7	2306.4	1046.8
72.5°	21009.9	21144.5	22764.7	26135.3	28841.3	29123.7	22881.9	11467.0	4083.0	1837.3	790.5
75°	12883.0	13113.2	16992.1	22191.3	25131.9	24814.8	17700.1	5464.2	1568.0	781.8	282.3
77.5°	4704.1	4895.2	8244.1	13964.6	17873.8	17674.0	10242.1	1941.6	851.3	582.0	143.3
80°	1224.9	1324.8	2801.6	6441.5	10511.4	10524.5	4287.1	777.5	577.7	477.8	86.9
82.5°	243.2	269.3	860.0	2506.2	4912.6	4847.4	1355.2	417.0	434.4	390.9	60.8
85°	30.4	39.1	182.4	851.3	1589.7	1424.7	334.5	208.5	321.4	304.1	39.1
87.5°	4.3	4.3	43.4	195.5	334.5	325.8	69.5	65.2	143.3	186.8	21.7
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°	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7	4395.7
2.5°	4443.5	4460.8	4521.7	4573.8	4634.6	4652.0	4625.9	4669.3	4608.5	4643.3	4652.0
5°	4452.2	4552.1	4665.0	4738.8	4721.5	4678.0	4643.3	4526.0	4443.5	4413.1	4478.2
7.5°	4513.0	4625.9	4747.5	4747.5	4652.0	4426.1	4208.9	4000.4	3826.7	3739.8	3813.7
10°	4591.2	4708.4	4834.4	4669.3	4313.2	3900.5	3592.1	3201.2	2936.3	2797.3	2810.3
12.5°	4695.4	4860.5	4903.9	4521.7	3930.9	3318.5	2758.2	2215.2	1963.3	1763.5	1767.8
15°	4830.1	4990.8	4860.5	4200.2	3444.5	2541.0	1867.7	1350.9	1151.0	1046.8	1046.8
17.5°	5008.1	5129.8	4847.4	3904.9	2788.6	1737.4	1146.7	912.2	868.7	851.3	851.3
20°	5216.6	5307.8	4721.5	3444.5	2071.9	1116.3	842.7	816.6	820.9	812.2	812.2
22.5°	5451.2	5481.6	4578.1	2910.2	1403.0	825.3	786.2	790.5	794.9	786.2	790.5
25°	5698.8	5616.2	4369.6	2284.7	933.9	751.4	760.1	768.8	773.2	777.5	777.5
27.5°	5976.8	5811.7	4078.6	1672.3	729.7	708.0	734.1	760.1	764.5	764.5	760.1
30°	6385.1	6111.4	3796.3	1133.7	642.8	660.2	703.7	734.1	755.8	755.8	751.4
32.5°	6901.9	6424.1	3401.0	773.2	595.1	603.8	638.5	699.3	747.1	751.4	738.4
35°	7618.6	6802.0	2988.4	616.8	560.3	564.7	586.4	634.2	716.7	742.8	738.4
37.5°	8374.4	7232.0	2475.8	556.0	534.3	529.9	542.9	582.0	655.9	721.0	725.4
40°	9178.0	7683.8	1937.2	525.6	512.5	503.9	508.2	525.6	582.0	664.6	681.9
42.5°	9933.8	8092.1	1455.1	495.2	490.8	482.1	482.1	486.5	516.9	573.4	582.0
45°	10750.3	8426.5	1107.6	473.4	460.4	464.8	447.4	438.7	460.4	464.8	460.4
47.5°	11514.8	8761.0	886.1	447.4	434.4	434.4	412.6	395.3	395.3	356.2	351.8
50°	12231.5	8943.4	708.0	412.6	408.3	404.0	373.5	343.1	317.1	269.3	260.6
52.5°	12826.6	8934.7	547.3	369.2	382.2	369.2	321.4	278.0	238.9	195.5	186.8
55°	13004.7	8517.7	412.6	304.1	325.8	308.4	256.3	217.2	173.7	139.0	134.7
57.5°	12852.6	7883.6	312.7	234.6	251.9	234.6	195.5	160.7	121.6	95.6	86.9
60°	12344.4	7140.8	243.2	182.4	191.1	178.1	147.7	121.6	86.9	60.8	52.1
62.5°	11380.2	6211.3	186.8	143.3	139.0	139.0	112.9	91.2	60.8	34.7	30.4
65°	9338.7	4843.1	143.3	99.9	99.9	99.9	86.9	65.2	39.1	17.4	8.7
67.5°	5863.8	2819.0	117.3	78.2	73.8	73.8	60.8	43.4	21.7	4.3	0.0
70°	2206.5	1033.8	91.2	60.8	56.5	56.5	43.4	26.1	13.0	0.0	0.0
72°	760.1	395.3	73.8	43.4	43.4	39.1	30.4	21.7	8.7	0.0	0.0
72.5°	625.5	317.1	69.5	43.4	39.1	39.1	30.4	21.7	8.7	0.0	0.0
75°	225.9	130.3	47.8	30.4	26.1	26.1	21.7	13.0	4.3	0.0	0.0
77.5°	112.9	82.5	39.1	26.1	21.7	13.0	13.0	8.7	4.3	0.0	0.0
80°	69.5	52.1	21.7	17.4	13.0	8.7	4.3	4.3	0.0	0.0	0.0
82.5°	47.8	30.4	13.0	13.0	8.7	4.3	0.0	0.0	0.0	0.0	0.0
85°	30.4	13.0	8.7	8.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	8.7	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)