

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: P483282

Luminaire Tested: **IFLD-S-SA6C-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483282
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

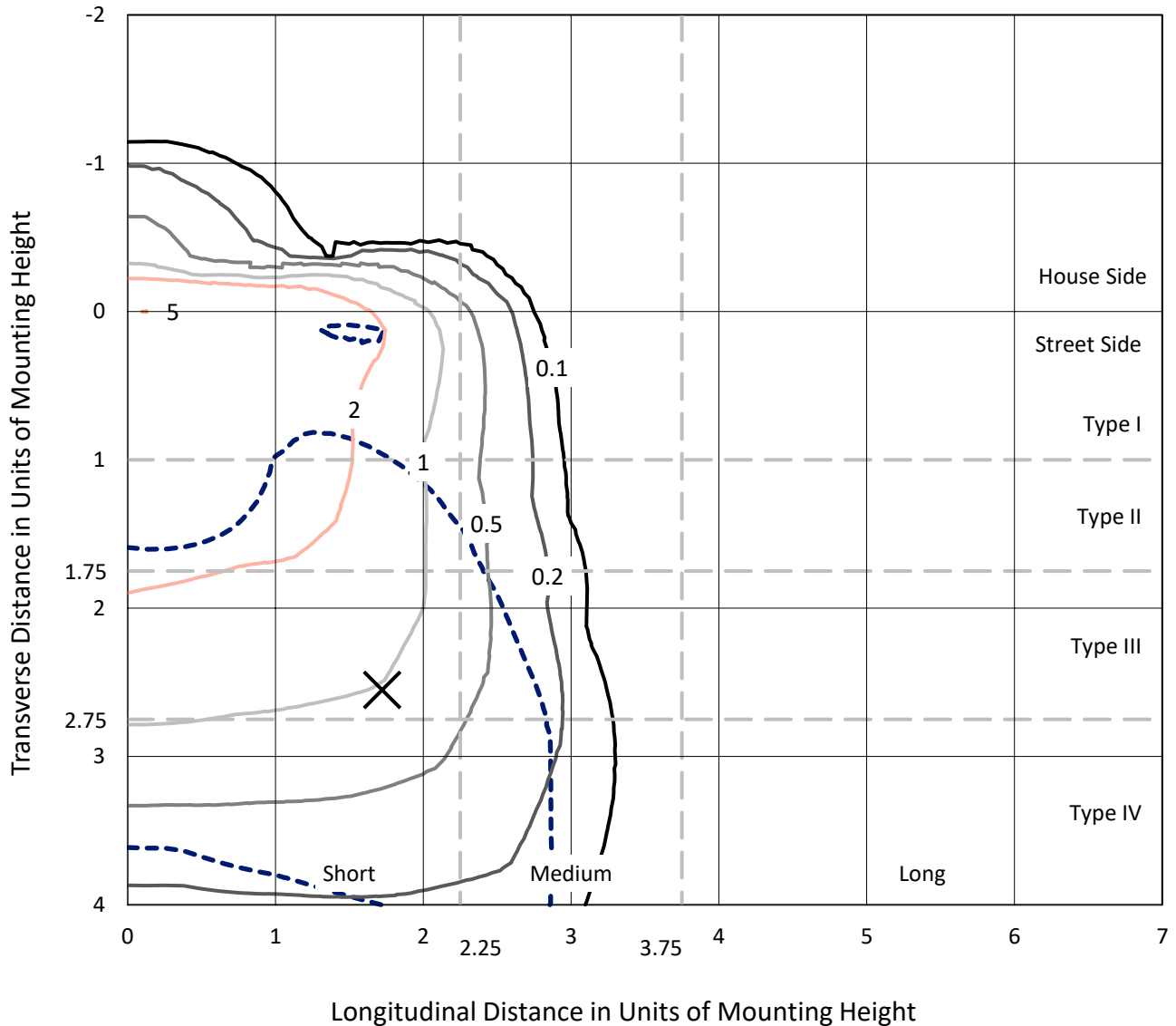
Lumens per Lamp: N/A
Luminaire Lumens: 30733.6 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

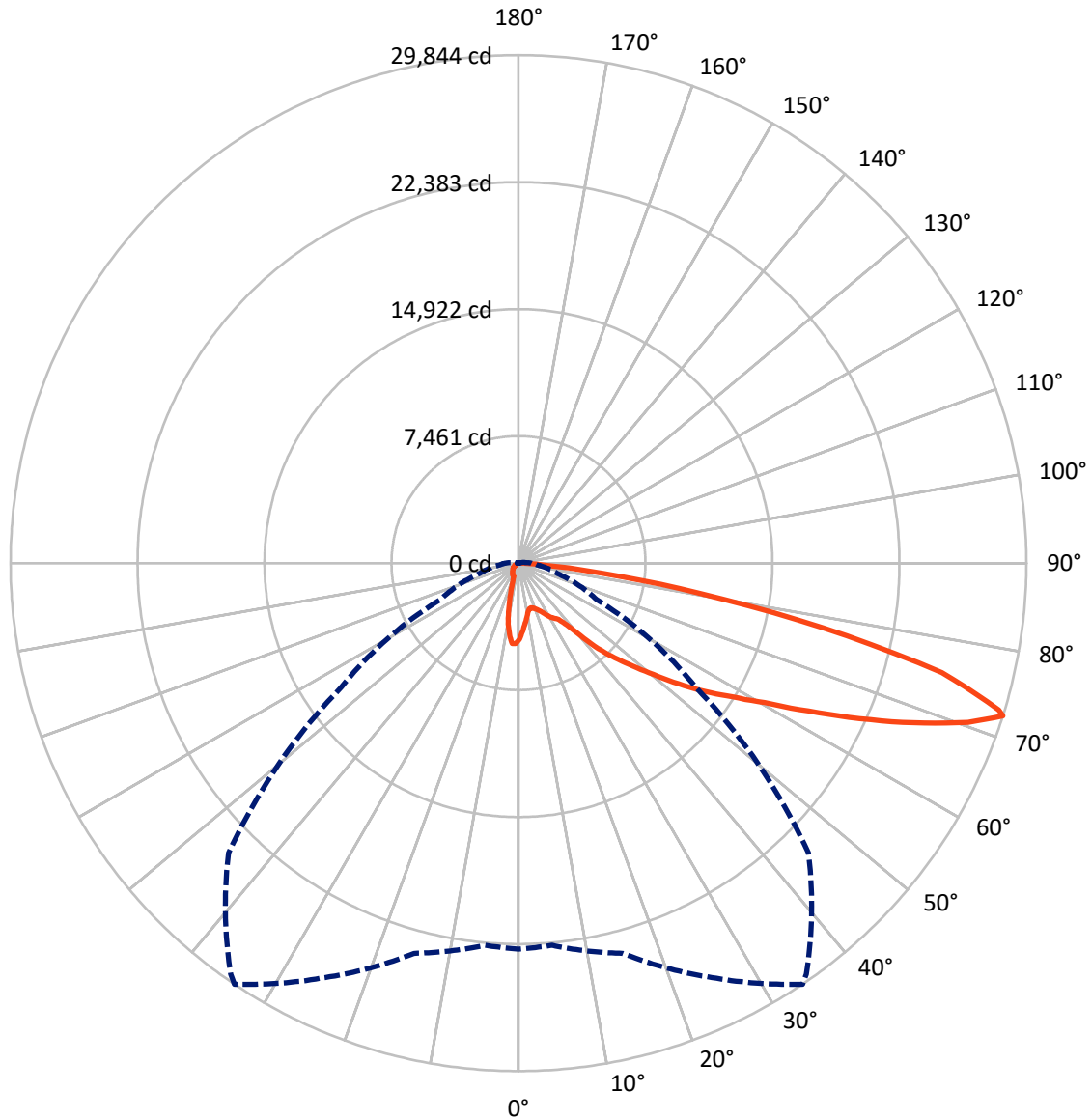
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	3146.4	0.0	3146.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	27587.2	0.0	27587.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	30733.6	0.0	30733.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.3	1.3
10°-20°	883.7	2.9
20°-30°	1333.8	4.3
30°-40°	2164.5	7.0
40°-50°	4070.3	13.2
50°-60°	6655.0	21.7
60°-70°	8846.9	28.8
70°-80°	5924.7	19.3
80°-90°	464.3	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°	30733.6	100.0
0°-180°	30733.6	100.0



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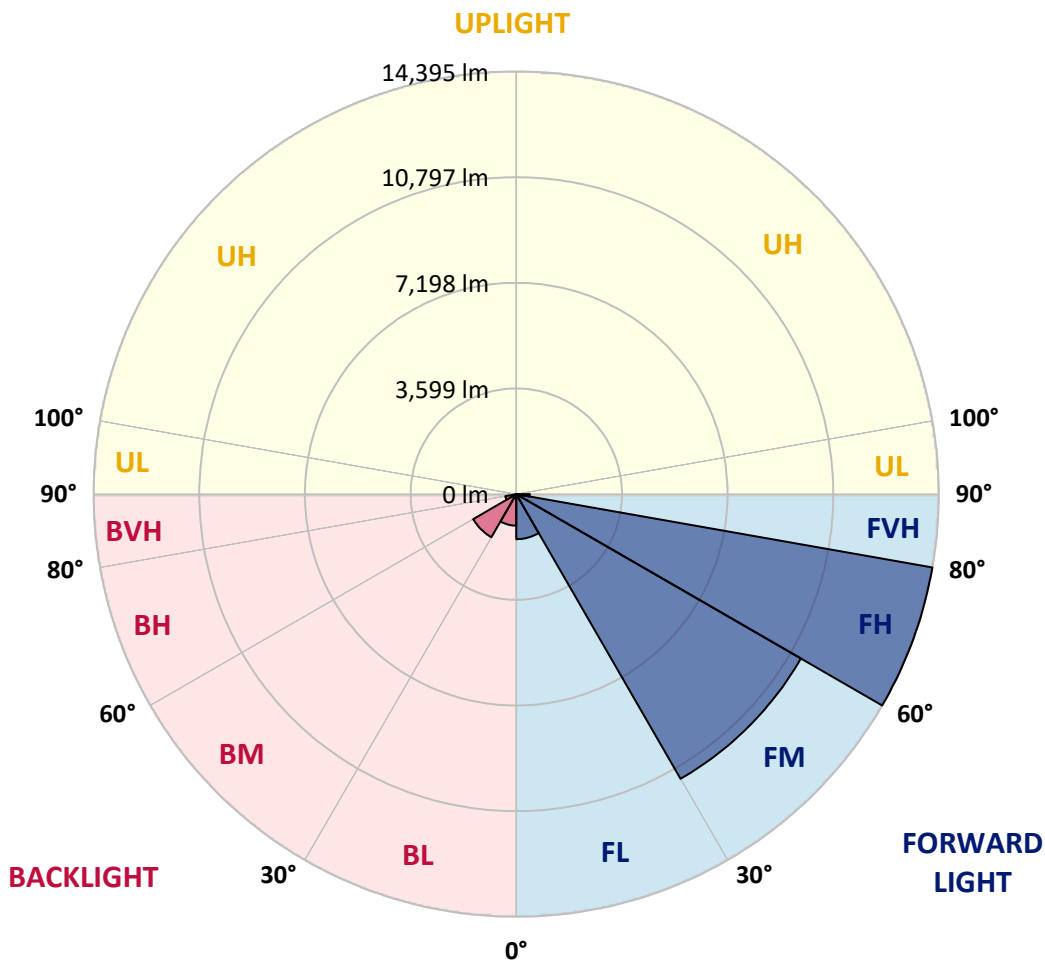
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1534.3	5.0			
FM (30°-60°)	11196.2	36.4			
FH (60°-80°)	14395.4	46.8			G5
FVH (80°-90°)	461.4	1.5			G3/500
BL (0°-30°)	1073.5	3.5	B3/2500		
BM (30°-60°)	1693.7	5.5	B2/2500		
BH (60°-80°)	376.2	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°	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4
2.5°	3976.5	3967.6	3994.3	4038.7	4083.2	4065.4	4149.8	4238.7	4300.9	4385.3	4487.5
5°	3474.5	3496.7	3523.3	3612.2	3670.0	3683.3	3838.8	3954.3	4145.4	4340.9	4523.0
7.5°	3016.8	3043.5	3096.8	3194.5	3314.5	3345.6	3501.1	3732.2	3981.0	4238.7	4536.3
10°	2683.6	2710.3	2768.0	2830.2	2990.2	2990.2	3203.4	3523.3	3847.7	4149.8	4540.8
12.5°	2612.5	2625.8	2621.4	2670.3	2772.5	2794.7	3003.5	3354.5	3732.2	4118.7	4611.9
15°	2696.9	2705.8	2661.4	2634.7	2723.6	2745.8	2941.3	3252.3	3656.6	4136.5	4727.4
17.5°	2865.8	2834.7	2745.8	2705.8	2781.3	2794.7	2976.8	3247.9	3647.7	4185.3	4860.7
20°	2963.5	2999.1	2843.5	2768.0	2874.6	2892.4	3087.9	3319.0	3692.2	4269.8	5047.3
22.5°	3136.8	3154.6	2945.7	2896.9	2999.1	2999.1	3221.2	3461.1	3798.8	4407.5	5269.4
25°	3381.2	3358.9	3114.6	3065.7	3163.4	3203.4	3425.6	3687.7	3963.2	4536.3	5473.8
27.5°	3572.2	3585.5	3385.6	3256.7	3421.1	3447.8	3687.7	3932.1	4087.6	4643.0	5722.6
30°	3856.6	3829.9	3616.6	3470.0	3674.4	3678.8	3909.9	4163.1	4327.5	4834.0	6095.9
32.5°	4194.2	4140.9	3896.5	3687.7	3852.1	3892.1	4127.6	4496.4	4700.7	5193.9	6673.4
35°	4909.6	4780.7	4380.8	4056.5	4069.8	4087.6	4451.9	4980.6	5216.1	5651.5	7446.5
37.5°	5953.7	5900.4	5447.2	4829.6	4594.1	4540.8	4949.5	5620.4	5913.7	6255.8	8450.7
40°	6988.9	6913.4	6491.3	6024.8	5598.2	5491.6	5696.0	6469.1	6735.6	7095.5	9481.4
42.5°	8139.7	8006.4	7508.7	7131.1	6864.5	6749.0	6669.0	7535.4	7837.5	8081.9	10490.0
45°	9303.7	9086.0	8366.2	8077.4	7935.3	7873.1	7864.2	8877.2	9059.4	9108.2	11609.7
47.5°	10325.6	10090.1	9437.0	9112.7	9006.0	8988.3	9485.9	10423.4	10281.2	10152.3	12858.2
50°	11112.0	10961.0	10490.0	10374.5	10294.5	10263.4	11427.5	12014.0	11356.4	11129.8	13955.6
52.5°	12329.4	11991.8	11458.6	11498.6	11778.5	11782.9	13395.8	13524.6	12249.5	11800.7	14990.8
55°	13302.5	13080.3	12644.9	12587.1	13324.7	13404.7	15159.7	14670.9	12747.1	12440.5	15372.9
57.5°	14448.8	14346.6	14031.1	14040.0	14813.1	14981.9	16728.0	15639.5	13160.3	12853.7	15430.7
60°	16106.0	15812.8	15648.4	15723.9	16634.7	16799.1	18247.6	16337.1	13360.2	13124.7	15288.5
62.5°	17936.6	17594.4	17416.7	17803.3	19131.7	19158.4	19402.8	16954.6	13235.8	13195.8	14373.2
65°	20140.3	19802.6	19660.5	20438.0	22015.3	21917.5	21024.5	17216.8	12840.4	12480.5	11969.6
67.5°	22335.2	22130.8	21837.5	23077.2	25041.0	25041.0	22708.4	17119.0	11805.2	10019.1	7828.6
70°	23374.8	23517.0	23983.5	25929.6	28013.4	27800.1	24370.1	15994.9	8788.3	5380.5	3079.0
72°	22681.7	22535.1	23739.2	26862.6	29843.9	29492.9	24090.2	12716.0	5078.4	2359.3	1070.8
72.5°	21491.0	21628.7	23286.0	26733.8	29501.8	29790.6	23405.9	11729.6	4176.5	1879.4	808.6
75°	13178.1	13413.5	17381.2	22699.5	25707.4	25383.1	18105.4	5589.3	1603.9	799.7	288.8
77.5°	4811.8	5007.3	8432.9	14284.4	18283.1	18078.7	10476.7	1986.0	870.8	595.4	146.6
80°	1252.9	1355.1	2865.8	6589.0	10752.2	10765.5	4385.3	795.3	590.9	488.7	88.9
82.5°	248.8	275.5	879.7	2563.6	5025.1	4958.4	1386.2	426.5	444.3	399.9	62.2
85°	31.1	40.0	186.6	870.8	1626.2	1457.3	342.1	213.3	328.8	311.0	40.0
87.5°	4.4	4.4	44.4	199.9	342.1	333.2	71.1	66.6	146.6	191.1	22.2
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°	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4	4496.4
2.5°	4545.2	4563.0	4625.2	4678.5	4740.7	4758.5	4731.8	4776.3	4714.1	4749.6	4758.5
5°	4554.1	4656.3	4771.8	4847.4	4829.6	4785.2	4749.6	4629.6	4545.2	4514.1	4580.8
7.5°	4616.3	4731.8	4856.2	4856.2	4758.5	4527.5	4305.3	4092.0	3914.3	3825.5	3901.0
10°	4696.3	4816.3	4945.1	4776.3	4411.9	3989.9	3674.4	3274.5	3003.5	2861.3	2874.6
12.5°	4802.9	4971.8	5016.2	4625.2	4021.0	3394.5	2821.3	2266.0	2008.3	1803.9	1808.3
15°	4940.7	5105.1	4971.8	4296.4	3523.3	2599.2	1910.5	1381.8	1177.4	1070.8	1070.8
17.5°	5122.8	5247.2	4958.4	3994.3	2852.4	1777.2	1173.0	933.0	888.6	870.8	870.8
20°	5336.1	5429.4	4829.6	3523.3	2119.3	1141.9	861.9	835.3	839.7	830.8	830.8
22.5°	5576.0	5607.1	4683.0	2976.8	1435.1	844.2	804.2	808.6	813.1	804.2	808.6
25°	5829.3	5744.9	4469.7	2337.0	955.3	768.6	777.5	786.4	790.9	795.3	795.3
27.5°	6113.6	5944.8	4172.0	1710.6	746.4	724.2	750.9	777.5	782.0	782.0	777.5
30°	6531.3	6251.4	3883.2	1159.6	657.6	675.3	719.8	750.9	773.1	773.1	768.6
32.5°	7060.0	6571.3	3478.9	790.9	608.7	617.6	653.1	715.3	764.2	768.6	755.3
35°	7793.1	6957.8	3056.8	630.9	573.2	577.6	599.8	648.7	733.1	759.8	755.3
37.5°	8566.2	7397.7	2532.5	568.7	546.5	542.1	555.4	595.4	670.9	737.5	742.0
40°	9388.1	7859.7	1981.6	537.6	524.3	515.4	519.8	537.6	595.4	679.8	697.6
42.5°	10161.2	8277.4	1488.4	506.5	502.1	493.2	493.2	497.6	528.7	586.5	595.4
45°	10996.5	8619.5	1133.0	484.3	471.0	475.4	457.6	448.7	471.0	475.4	471.0
47.5°	11778.5	8961.6	906.4	457.6	444.3	444.3	422.1	404.3	404.3	364.3	359.9
50°	12511.6	9148.2	724.2	422.1	417.6	413.2	382.1	351.0	324.3	275.5	266.6
52.5°	13120.3	9139.3	559.8	377.7	391.0	377.7	328.8	284.4	244.4	199.9	191.1
55°	13302.5	8712.8	422.1	311.0	333.2	315.5	262.1	222.2	177.7	142.2	137.7
57.5°	13147.0	8064.1	319.9	239.9	257.7	239.9	199.9	164.4	124.4	97.7	88.9
60°	12627.1	7304.4	248.8	186.6	195.5	182.2	151.1	124.4	88.9	62.2	53.3
62.5°	11640.8	6353.5	191.1	146.6	142.2	142.2	115.5	93.3	62.2	35.5	31.1
65°	9552.5	4954.0	146.6	102.2	102.2	102.2	88.9	66.6	40.0	17.8	8.9
67.5°	5998.1	2883.5	120.0	80.0	75.5	75.5	62.2	44.4	22.2	4.4	0.0
70°	2257.1	1057.4	93.3	62.2	57.8	57.8	44.4	26.7	13.3	0.0	0.0
72°	777.5	404.3	75.5	44.4	44.4	40.0	31.1	22.2	8.9	0.0	0.0
72.5°	639.8	324.3	71.1	44.4	40.0	40.0	31.1	22.2	8.9	0.0	0.0
75°	231.0	133.3	48.9	31.1	26.7	26.7	22.2	13.3	4.4	0.0	0.0
77.5°	115.5	84.4	40.0	26.7	22.2	13.3	13.3	8.9	4.4	0.0	0.0
80°	71.1	53.3	22.2	17.8	13.3	8.9	4.4	4.4	0.0	0.0	0.0
82.5°	48.9	31.1	13.3	13.3	8.9	4.4	0.0	0.0	0.0	0.0	0.0
85°	31.1	13.3	8.9	8.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	8.9	4.4	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)