

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: P483136

Luminaire Tested: **IFLD-L-SA7C-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483136
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

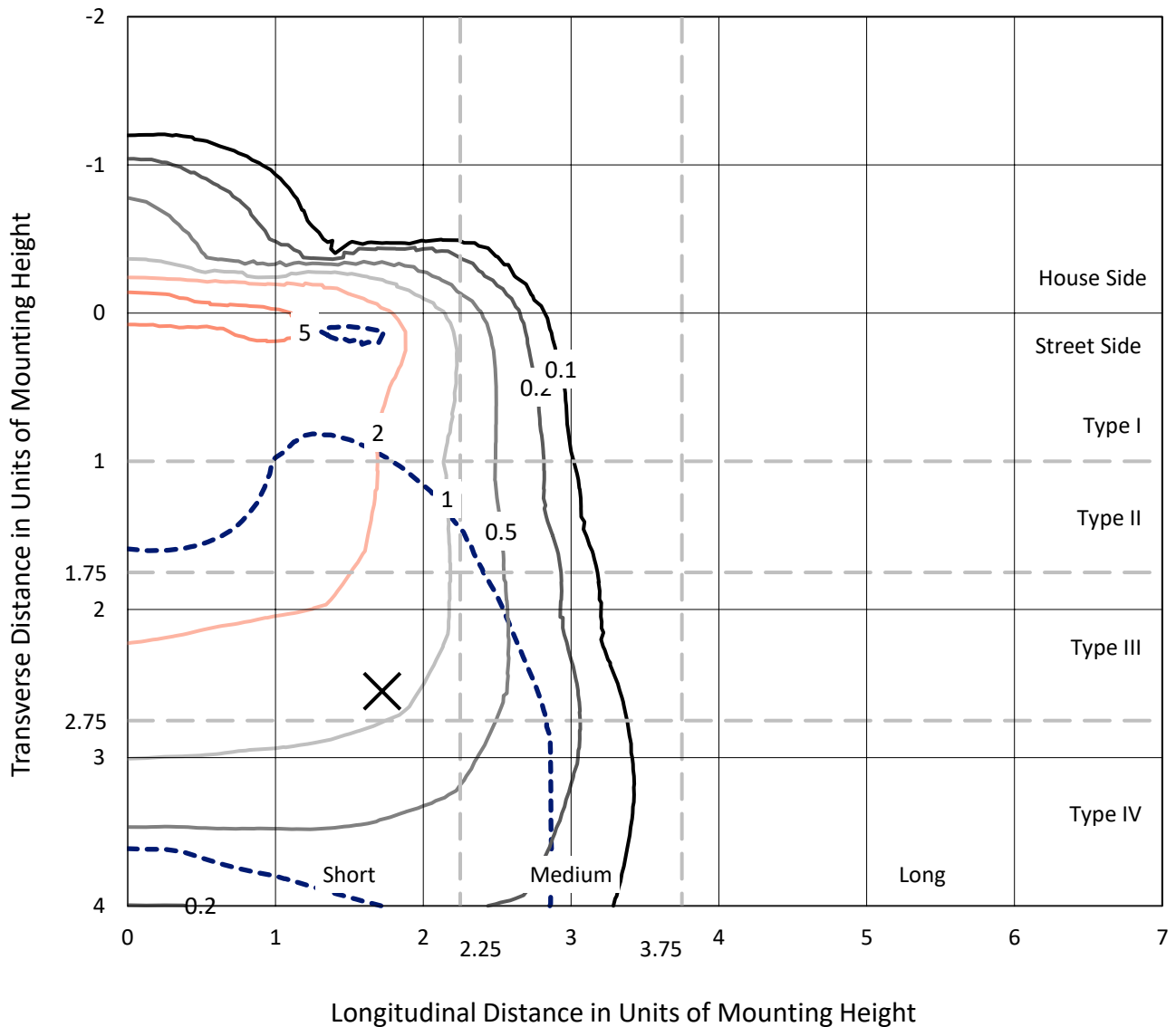
Lumens per Lamp: N/A
Luminaire Lumens: 26807.7 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

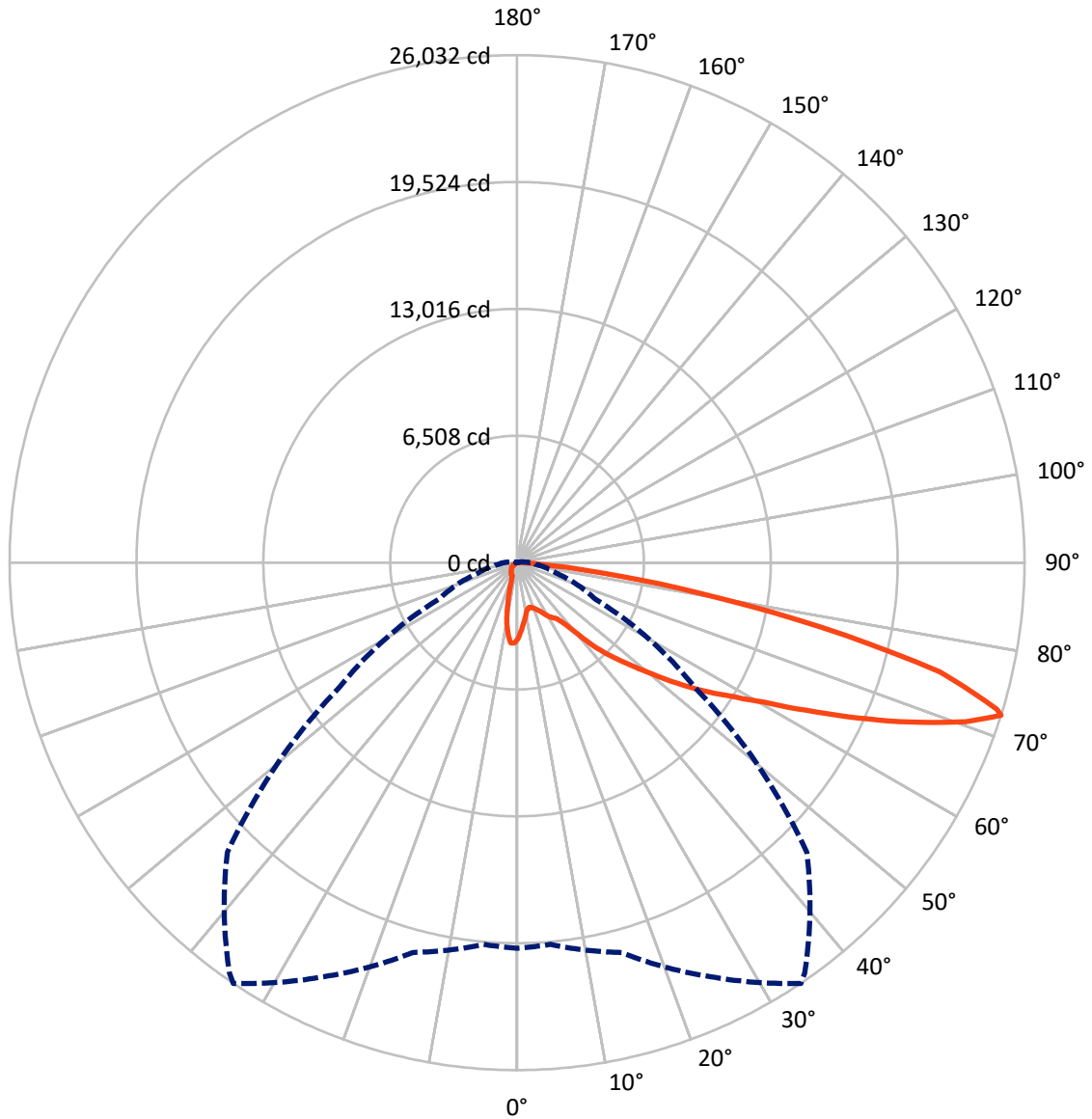
× Max cd
 - - - 1/2 Max cd



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	2744.5	0.0	2744.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	24063.2	0.0	24063.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	26807.7	0.0	26807.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	1.3
10°-20°	770.8	2.9
20°-30°	1163.4	4.3
30°-40°	1888.0	7.0
40°-50°	3550.4	13.2
50°-60°	5804.9	21.7
60°-70°	7716.8	28.8
70°-80°	5167.9	19.3
80°-90°	405.0	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°	26807.7	100.0
0°-180°	26807.7	100.0

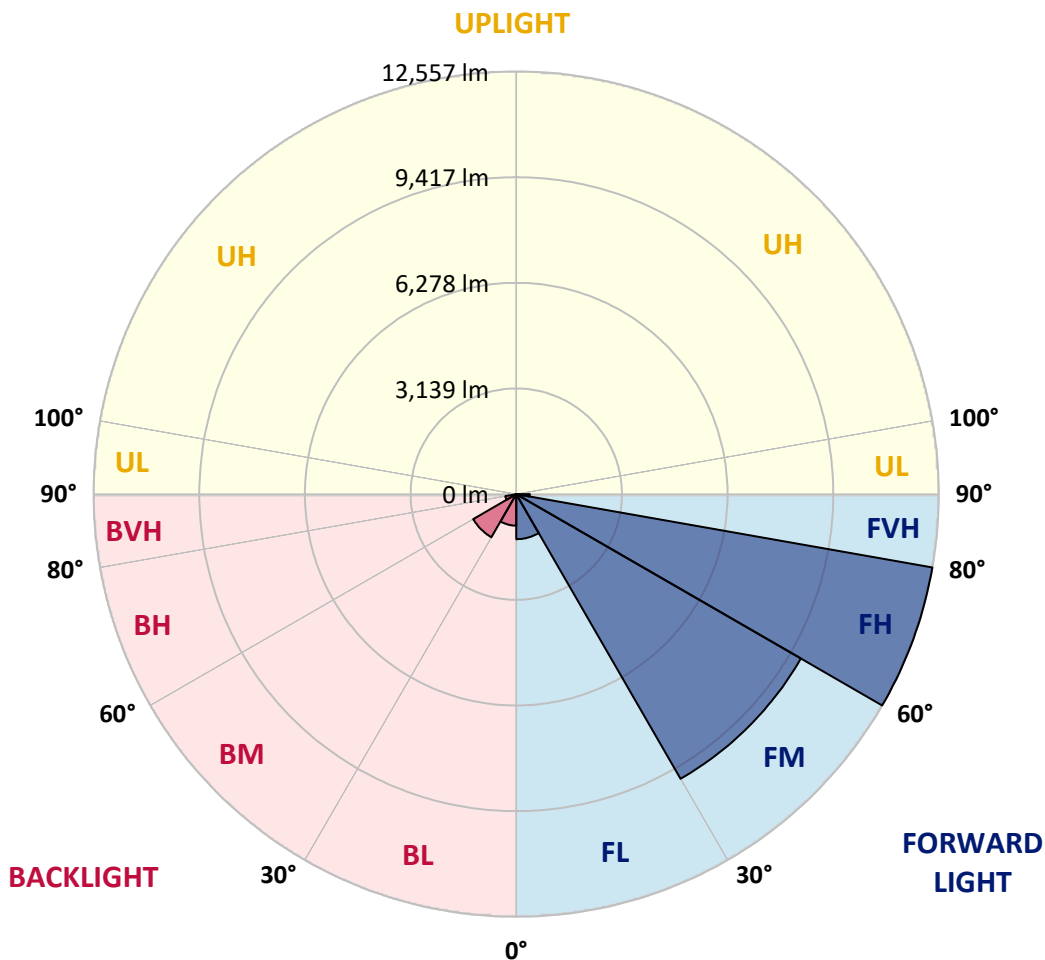


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1338.3	5.0			
FM (30°-60°)	9766.0	36.4			
FH (60°-80°)	12556.5	46.8			G5
FVH (80°-90°)	402.4	1.5			G3/500
BL (0°-30°)	936.4	3.5	B2/1000		
BM (30°-60°)	1477.3	5.5	B2/2500		
BH (60°-80°)	328.2	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°	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0
2.5°	3468.6	3460.8	3484.1	3522.8	3561.6	3546.1	3619.7	3697.2	3751.5	3825.1	3914.2
5°	3030.6	3050.0	3073.3	3150.8	3201.1	3212.8	3348.4	3449.2	3615.8	3786.3	3945.2
7.5°	2631.4	2654.7	2701.2	2786.5	2891.1	2918.2	3053.9	3255.4	3472.4	3697.2	3956.9
10°	2340.8	2364.0	2414.4	2468.7	2608.2	2608.2	2794.2	3073.3	3356.2	3619.7	3960.7
12.5°	2278.8	2290.4	2286.5	2329.2	2418.3	2437.7	2619.8	2926.0	3255.4	3592.6	4022.7
15°	2352.4	2360.2	2321.4	2298.2	2375.7	2395.0	2565.6	2836.9	3189.5	3608.1	4123.5
17.5°	2499.7	2472.6	2395.0	2360.2	2426.0	2437.7	2596.6	2833.0	3181.8	3650.7	4239.8
20°	2584.9	2615.9	2480.3	2414.4	2507.4	2522.9	2693.5	2895.0	3220.5	3724.3	4402.5
22.5°	2736.1	2751.6	2569.4	2526.8	2615.9	2615.9	2809.7	3019.0	3313.5	3844.5	4596.3
25°	2949.2	2929.9	2716.7	2674.1	2759.3	2794.2	2988.0	3216.6	3456.9	3956.9	4774.6
27.5°	3115.9	3127.5	2953.1	2840.7	2984.1	3007.4	3216.6	3429.8	3565.4	4049.9	4991.6
30°	3363.9	3340.7	3154.6	3026.7	3205.0	3208.9	3410.4	3631.3	3774.7	4216.5	5317.2
32.5°	3658.5	3611.9	3398.8	3216.6	3360.0	3394.9	3600.3	3922.0	4100.3	4530.4	5821.0
35°	4282.4	4170.0	3821.2	3538.3	3549.9	3565.4	3883.2	4344.4	4549.8	4929.6	6495.3
37.5°	5193.1	5146.6	4751.3	4212.6	4007.2	3960.7	4317.3	4902.5	5158.3	5456.7	7371.2
40°	6096.1	6030.2	5662.1	5255.1	4883.1	4790.1	4968.4	5642.7	5875.2	6189.1	8270.3
42.5°	7099.9	6983.6	6549.6	6220.1	5987.6	5886.9	5817.1	6572.8	6836.3	7049.5	9150.0
45°	8115.3	7925.4	7297.5	7045.6	6921.6	6867.3	6859.6	7743.2	7902.1	7944.7	10126.6
47.5°	9006.6	8801.2	8231.5	7948.6	7855.6	7840.1	8274.1	9091.9	8967.9	8855.5	11215.6
50°	9692.6	9560.8	9150.0	9049.2	8979.5	8952.4	9967.7	10479.3	9905.7	9708.1	12172.9
52.5°	10754.5	10459.9	9994.9	10029.7	10273.9	10277.8	11684.6	11797.0	10684.7	10293.3	13075.9
55°	11603.2	11409.4	11029.6	10979.2	11622.6	11692.3	13223.1	12796.8	11118.7	10851.3	13409.2
57.5°	12603.1	12513.9	12238.8	12246.5	12920.8	13068.1	14591.2	13641.7	11479.2	11211.8	13459.5
60°	14048.6	13792.8	13649.4	13715.3	14509.8	14653.2	15916.6	14250.1	11653.6	11448.2	13335.5
62.5°	15645.3	15346.9	15191.9	15529.0	16687.8	16711.1	16924.2	14788.8	11545.0	11510.2	12537.2
65°	17567.5	17273.0	17149.0	17827.2	19203.0	19117.7	18338.8	15017.5	11200.1	10886.2	10440.5
67.5°	19482.0	19303.8	19048.0	20129.2	21842.2	21842.2	19807.6	14932.2	10297.1	8739.2	6828.6
70°	20388.9	20512.9	20919.8	22617.3	24434.9	24248.9	21257.0	13951.7	7665.7	4693.2	2685.7
72°	19784.3	19656.4	20706.7	23431.1	26031.6	25725.4	21012.8	11091.6	4429.7	2057.9	934.0
72.5°	18745.7	18865.8	20311.4	23318.8	25733.2	25985.1	20416.0	10231.3	3642.9	1639.3	705.3
75°	11494.7	11700.1	15160.9	19799.8	22423.5	22140.6	15792.6	4875.4	1399.0	697.6	251.9
77.5°	4197.1	4367.7	7355.7	12459.7	15947.6	15769.3	9138.4	1732.3	759.6	519.3	127.9
80°	1092.9	1182.0	2499.7	5747.3	9378.7	9390.3	3825.1	693.7	515.4	426.3	77.5
82.5°	217.0	240.3	767.3	2236.2	4383.2	4325.0	1209.1	372.0	387.5	348.8	54.3
85°	27.1	34.9	162.8	759.6	1418.4	1271.2	298.4	186.0	286.8	271.3	34.9
87.5°	3.9	3.9	38.8	174.4	298.4	290.7	62.0	58.1	127.9	166.6	19.4
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°	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0	3922.0
2.5°	3964.6	3980.1	4034.4	4080.9	4135.1	4150.6	4127.4	4166.1	4111.9	4142.9	4150.6
5°	3972.4	4061.5	4162.3	4228.1	4212.6	4173.9	4142.9	4038.2	3964.6	3937.5	3995.6
7.5°	4026.6	4127.4	4235.9	4235.9	4150.6	3949.1	3755.3	3569.3	3414.3	3336.8	3402.7
10°	4096.4	4201.0	4313.4	4166.1	3848.3	3480.2	3205.0	2856.2	2619.8	2495.8	2507.4
12.5°	4189.4	4336.7	4375.4	4034.4	3507.3	2960.9	2460.9	1976.5	1751.7	1573.4	1577.3
15°	4309.5	4452.9	4336.7	3747.6	3073.3	2267.2	1666.5	1205.3	1027.0	934.0	934.0
17.5°	4468.4	4576.9	4325.0	3484.1	2488.1	1550.2	1023.1	813.9	775.1	759.6	759.6
20°	4654.4	4735.8	4212.6	3073.3	1848.6	996.0	751.8	728.6	732.5	724.7	724.7
22.5°	4863.7	4890.9	4084.8	2596.6	1251.8	736.3	701.5	705.3	709.2	701.5	705.3
25°	5084.6	5011.0	3898.7	2038.5	833.2	670.5	678.2	686.0	689.8	693.7	693.7
27.5°	5332.7	5185.4	3639.1	1492.1	651.1	631.7	655.0	678.2	682.1	682.1	678.2
30°	5697.0	5452.8	3387.2	1011.5	573.6	589.1	627.8	655.0	674.3	674.3	670.5
32.5°	6158.1	5731.8	3034.5	689.8	530.9	538.7	569.7	624.0	666.6	670.5	658.8
35°	6797.6	6069.0	2666.3	550.3	499.9	503.8	523.2	565.8	639.5	662.7	658.8
37.5°	7471.9	6452.7	2209.0	496.1	476.7	472.8	484.4	519.3	585.2	643.3	647.2
40°	8188.9	6855.7	1728.5	468.9	457.3	449.6	453.4	468.9	519.3	592.9	608.5
42.5°	8863.2	7220.0	1298.3	441.8	437.9	430.2	430.2	434.1	461.2	511.6	519.3
45°	9591.8	7518.4	988.2	422.4	410.8	414.7	399.2	391.4	410.8	414.7	410.8
47.5°	10273.9	7816.8	790.6	399.2	387.5	387.5	368.2	352.7	352.7	317.8	313.9
50°	10913.3	7979.6	631.7	368.2	364.3	360.4	333.3	306.2	282.9	240.3	232.5
52.5°	11444.3	7971.9	488.3	329.4	341.0	329.4	286.8	248.0	213.2	174.4	166.6
55°	11603.2	7599.8	368.2	271.3	290.7	275.2	228.7	193.8	155.0	124.0	120.1
57.5°	11467.5	7034.0	279.0	209.3	224.8	209.3	174.4	143.4	108.5	85.3	77.5
60°	11014.1	6371.3	217.0	162.8	170.5	158.9	131.8	108.5	77.5	54.3	46.5
62.5°	10153.8	5541.9	166.6	127.9	124.0	124.0	100.8	81.4	54.3	31.0	27.1
65°	8332.3	4321.2	127.9	89.1	89.1	89.1	77.5	58.1	34.9	15.5	7.8
67.5°	5231.9	2515.2	104.6	69.8	65.9	65.9	54.3	38.8	19.4	3.9	0.0
70°	1968.7	922.4	81.4	54.3	50.4	50.4	38.8	23.3	11.6	0.0	0.0
72°	678.2	352.7	65.9	38.8	38.8	34.9	27.1	19.4	7.8	0.0	0.0
72.5°	558.1	282.9	62.0	38.8	34.9	34.9	27.1	19.4	7.8	0.0	0.0
75°	201.5	116.3	42.6	27.1	23.3	23.3	19.4	11.6	3.9	0.0	0.0
77.5°	100.8	73.6	34.9	23.3	19.4	11.6	11.6	7.8	3.9	0.0	0.0
80°	62.0	46.5	19.4	15.5	11.6	7.8	3.9	3.9	0.0	0.0	0.0
82.5°	42.6	27.1	11.6	11.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	27.1	11.6	7.8	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	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)