

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: P483098

Luminaire Tested: **IFLD-L-SA7D-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483098
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

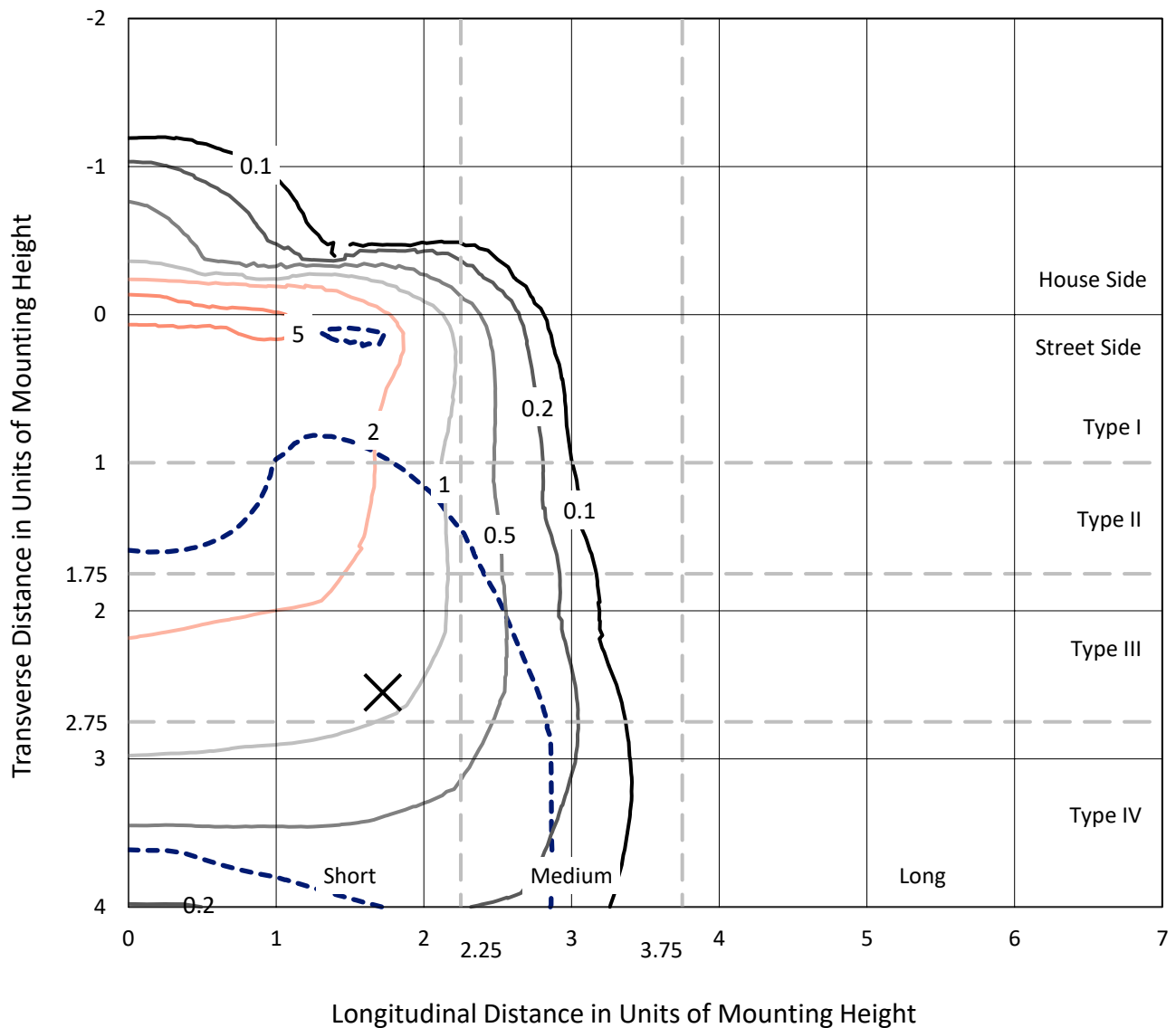
Lumens per Lamp: N/A
Luminaire Lumens: 25981 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

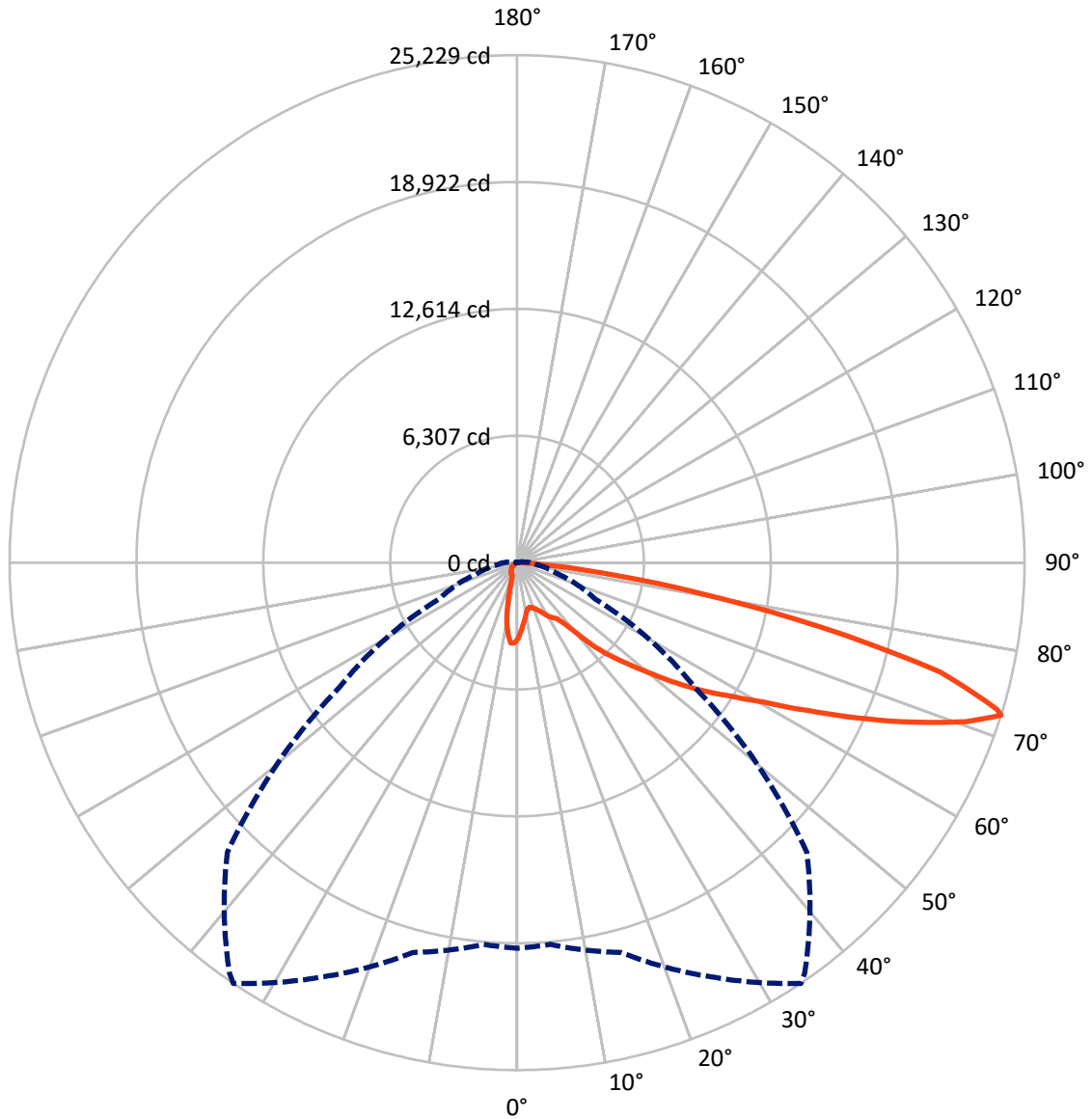
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2659.9	0.0	2659.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	23321.2	0.0	23321.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	25981.0	0.0	25981.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.0	1.3
10°-20°	747.0	2.9
20°-30°	1127.6	4.3
30°-40°	1829.8	7.0
40°-50°	3440.9	13.2
50°-60°	5625.9	21.7
60°-70°	7478.8	28.8
70°-80°	5008.5	19.3
80°-90°	392.5	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°	25981.0	100.0
0°-180°	25981.0	100.0



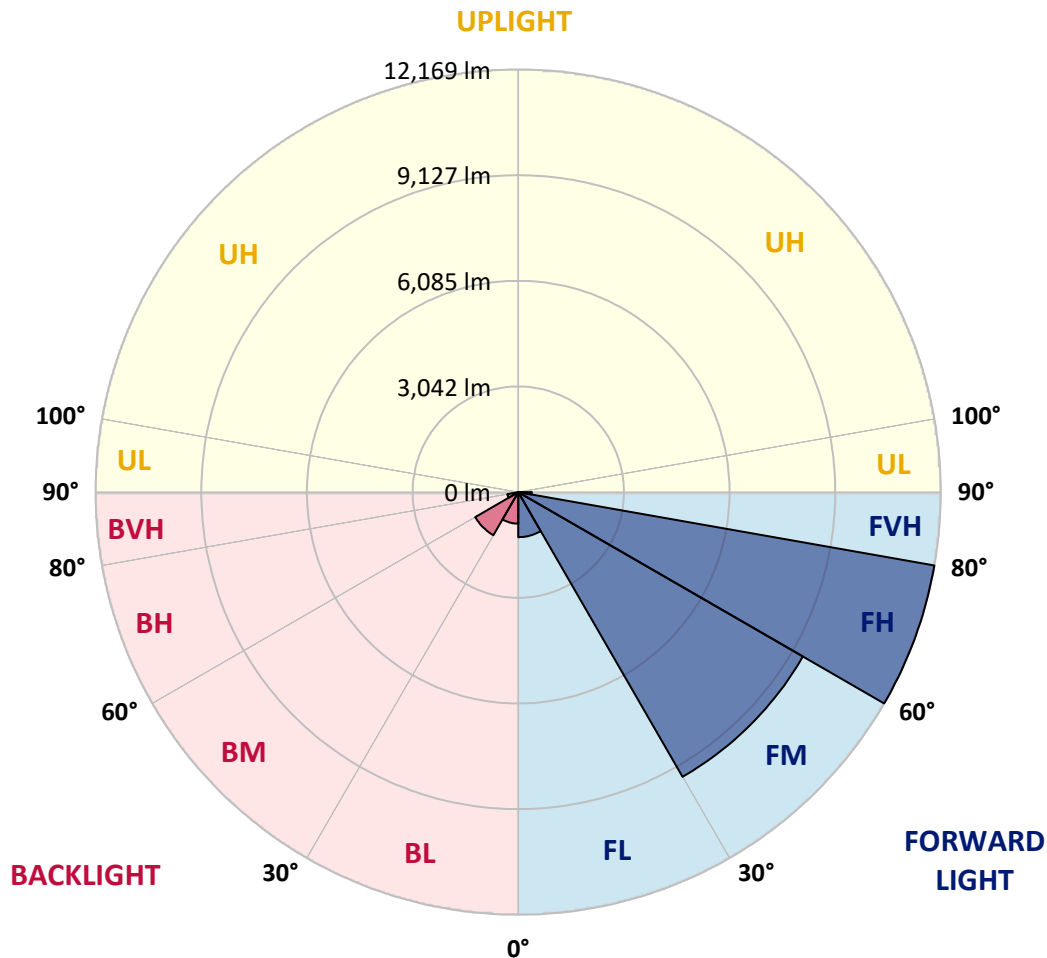
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.0	5.0			
FM (30°-60°)	9464.8	36.4			
FH (60°-80°)	12169.3	46.8			G5
FVH (80°-90°)	390.0	1.5			G3/500
BL (0°-30°)	907.5	3.5	B2/1000		
BM (30°-60°)	1431.8	5.5	B2/2500		
BH (60°-80°)	318.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.5	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°	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0
2.5°	3361.6	3354.1	3376.6	3414.2	3451.7	3436.7	3508.1	3583.2	3635.8	3707.1	3793.5
5°	2937.2	2955.9	2978.5	3053.6	3102.4	3113.7	3245.2	3342.8	3504.3	3669.6	3823.6
7.5°	2550.3	2572.8	2617.9	2700.5	2802.0	2828.2	2959.7	3155.0	3365.4	3583.2	3834.8
10°	2268.6	2291.1	2340.0	2392.6	2527.8	2527.8	2708.1	2978.5	3252.7	3508.1	3838.6
12.5°	2208.5	2219.8	2216.0	2257.3	2343.7	2362.5	2539.0	2835.8	3155.0	3481.8	3898.7
15°	2279.9	2287.4	2249.8	2227.3	2302.4	2321.2	2486.5	2749.4	3091.2	3496.8	3996.4
17.5°	2422.6	2396.3	2321.2	2287.4	2351.2	2362.5	2516.5	2745.6	3083.7	3538.1	4109.0
20°	2505.2	2535.3	2403.8	2340.0	2430.1	2445.1	2610.4	2805.7	3121.2	3609.5	4266.8
22.5°	2651.7	2666.7	2490.2	2448.9	2535.3	2535.3	2723.1	2925.9	3211.4	3725.9	4454.6
25°	2858.3	2839.5	2632.9	2591.6	2674.3	2708.1	2895.9	3117.5	3350.3	3834.8	4627.4
27.5°	3019.8	3031.1	2862.1	2753.1	2892.1	2914.6	3117.5	3324.0	3455.5	3925.0	4837.7
30°	3260.2	3237.6	3057.4	2933.4	3106.2	3109.9	3305.3	3519.3	3658.3	4086.5	5153.2
32.5°	3545.6	3500.6	3294.0	3117.5	3256.4	3290.2	3489.3	3801.0	3973.8	4390.7	5641.5
35°	4150.3	4041.4	3703.4	3429.2	3440.5	3455.5	3763.5	4210.4	4409.5	4777.6	6295.0
37.5°	5033.0	4987.9	4604.8	4082.7	3883.7	3838.6	4184.2	4751.3	4999.2	5288.4	7143.9
40°	5908.1	5844.3	5487.5	5093.1	4732.5	4642.4	4815.2	5468.7	5694.1	5998.3	8015.2
42.5°	6880.9	6768.3	6347.6	6028.3	5803.0	5705.3	5637.7	6370.1	6625.5	6832.1	8867.8
45°	7865.0	7681.0	7072.5	6828.4	6708.2	6655.6	6648.1	7504.4	7658.4	7699.7	9814.4
47.5°	8728.9	8529.8	7977.7	7703.5	7613.4	7598.3	8019.0	8811.5	8691.3	8582.4	10869.8
50°	9393.7	9266.0	8867.8	8770.2	8702.6	8676.3	9660.4	10156.1	9600.3	9408.7	11797.5
52.5°	10422.8	10137.4	9686.7	9720.5	9957.1	9960.8	11324.3	11433.2	10355.2	9975.9	12672.6
55°	11245.4	11057.6	10689.5	10640.7	11264.2	11331.8	12815.4	12402.2	10775.9	10516.7	12995.7
57.5°	12214.4	12128.0	11861.4	11868.9	12522.4	12665.1	14141.2	13221.0	11125.2	10866.0	13044.5
60°	13615.4	13367.5	13228.5	13292.4	14062.4	14201.3	15425.8	13810.7	11294.2	11095.1	12924.3
62.5°	15162.9	14873.6	14723.4	15050.2	16173.2	16195.8	16402.3	14332.8	11189.0	11155.2	12150.6
65°	17025.8	16740.4	16620.2	17277.5	18610.8	18528.2	17773.3	14554.4	10854.8	10550.5	10118.6
67.5°	18881.3	18708.5	18460.6	19508.5	21168.7	21168.7	19196.8	14471.8	9979.6	8469.7	6618.0
70°	19760.2	19880.4	20274.7	21919.9	23681.4	23501.1	20601.5	13521.5	7429.3	4548.5	2602.9
72°	19174.2	19050.3	20068.2	22708.6	25228.9	24932.1	20364.9	10749.6	4293.1	1994.4	905.2
72.5°	18167.6	18284.1	19685.0	22599.7	24939.7	25183.8	19786.5	9915.8	3530.6	1588.8	683.6
75°	11140.2	11339.3	14693.4	19189.3	21732.1	21457.9	15305.6	4725.0	1355.9	676.1	244.1
77.5°	4067.7	4233.0	7128.8	12075.4	15455.8	15283.0	8856.6	1678.9	736.2	503.3	123.9
80°	1059.2	1145.6	2422.6	5570.1	9089.5	9100.7	3707.1	672.3	499.5	413.2	75.1
82.5°	210.3	232.9	743.7	2167.2	4248.0	4191.7	1171.9	360.6	375.6	338.0	52.6
85°	26.3	33.8	157.8	736.2	1374.7	1232.0	289.2	180.3	277.9	262.9	33.8
87.5°	3.8	3.8	37.6	169.0	289.2	281.7	60.1	56.3	123.9	161.5	18.8
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°	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0	3801.0
2.5°	3842.4	3857.4	3910.0	3955.0	4007.6	4022.6	4000.1	4037.7	3985.1	4015.1	4022.6
5°	3849.9	3936.3	4033.9	4097.8	4082.7	4045.2	4015.1	3913.7	3842.4	3816.1	3872.4
7.5°	3902.5	4000.1	4105.3	4105.3	4022.6	3827.3	3639.5	3459.3	3309.0	3233.9	3297.7
10°	3970.1	4071.5	4180.4	4037.7	3729.7	3372.9	3106.2	2768.2	2539.0	2418.8	2430.1
12.5°	4060.2	4202.9	4240.5	3910.0	3399.2	2869.6	2385.0	1915.5	1697.7	1524.9	1528.7
15°	4176.6	4315.6	4202.9	3632.0	2978.5	2197.2	1615.1	1168.1	995.3	905.2	905.2
17.5°	4330.6	4435.8	4191.7	3376.6	2411.3	1502.4	991.6	788.8	751.2	736.2	736.2
20°	4510.9	4589.8	4082.7	2978.5	1791.6	965.3	728.7	706.1	709.9	702.4	702.4
22.5°	4713.7	4740.0	3958.8	2516.5	1213.2	713.6	679.8	683.6	687.3	679.8	683.6
25°	4927.8	4856.5	3778.5	1975.6	807.5	649.8	657.3	664.8	668.6	672.3	672.3
27.5°	5168.2	5025.5	3526.9	1446.0	631.0	612.2	634.8	657.3	661.1	661.1	657.3
30°	5521.3	5284.7	3282.7	980.3	555.9	570.9	608.5	634.8	653.5	653.5	649.8
32.5°	5968.2	5555.1	2940.9	668.6	514.6	522.1	552.1	604.7	646.0	649.8	638.5
35°	6588.0	5881.9	2584.1	533.3	484.5	488.3	507.1	548.4	619.7	642.3	638.5
37.5°	7241.5	6253.7	2140.9	480.8	462.0	458.2	469.5	503.3	567.2	623.5	627.2
40°	7936.4	6644.3	1675.2	454.5	443.2	435.7	439.4	454.5	503.3	574.7	589.7
42.5°	8589.9	6997.4	1258.3	428.2	424.4	416.9	416.9	420.7	447.0	495.8	503.3
45°	9296.0	7286.6	957.8	409.4	398.1	401.9	386.9	379.4	398.1	401.9	398.1
47.5°	9957.1	7575.8	766.2	386.9	375.6	375.6	356.8	341.8	341.8	308.0	304.2
50°	10576.8	7733.5	612.2	356.8	353.1	349.3	323.0	296.7	274.2	232.9	225.4
52.5°	11091.4	7726.0	473.3	319.3	330.5	319.3	277.9	240.4	206.6	169.0	161.5
55°	11245.4	7365.5	356.8	262.9	281.7	266.7	221.6	187.8	150.2	120.2	116.4
57.5°	11113.9	6817.1	270.4	202.8	217.8	202.8	169.0	139.0	105.2	82.6	75.1
60°	10674.5	6174.8	210.3	157.8	165.3	154.0	127.7	105.2	75.1	52.6	45.1
62.5°	9840.6	5371.0	161.5	123.9	120.2	120.2	97.7	78.9	52.6	30.0	26.3
65°	8075.3	4187.9	123.9	86.4	86.4	86.4	75.1	56.3	33.8	15.0	7.5
67.5°	5070.6	2437.6	101.4	67.6	63.9	63.9	52.6	37.6	18.8	3.8	0.0
70°	1908.0	893.9	78.9	52.6	48.8	48.8	37.6	22.5	11.3	0.0	0.0
72°	657.3	341.8	63.9	37.6	37.6	33.8	26.3	18.8	7.5	0.0	0.0
72.5°	540.9	274.2	60.1	37.6	33.8	33.8	26.3	18.8	7.5	0.0	0.0
75°	195.3	112.7	41.3	26.3	22.5	22.5	18.8	11.3	3.8	0.0	0.0
77.5°	97.7	71.4	33.8	22.5	18.8	11.3	11.3	7.5	3.8	0.0	0.0
80°	60.1	45.1	18.8	15.0	11.3	7.5	3.8	3.8	0.0	0.0	0.0
82.5°	41.3	26.3	11.3	11.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0
85°	26.3	11.3	7.5	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	7.5	3.8	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)