

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: P480144

Luminaire Tested: **IFLD-S-SA2E-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480144
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

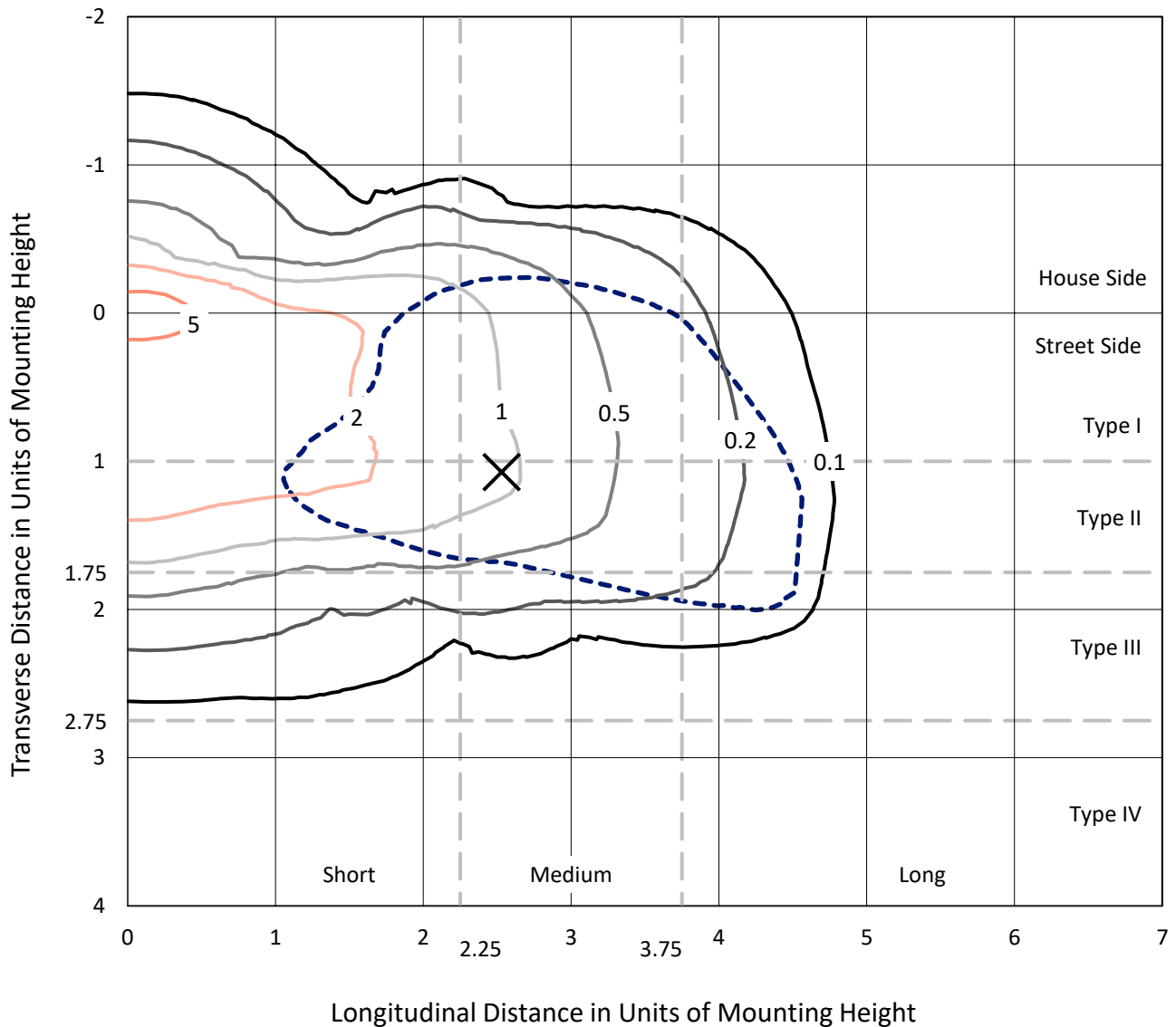
Lumens per Lamp: N/A
Luminaire Lumens: 18459.4 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

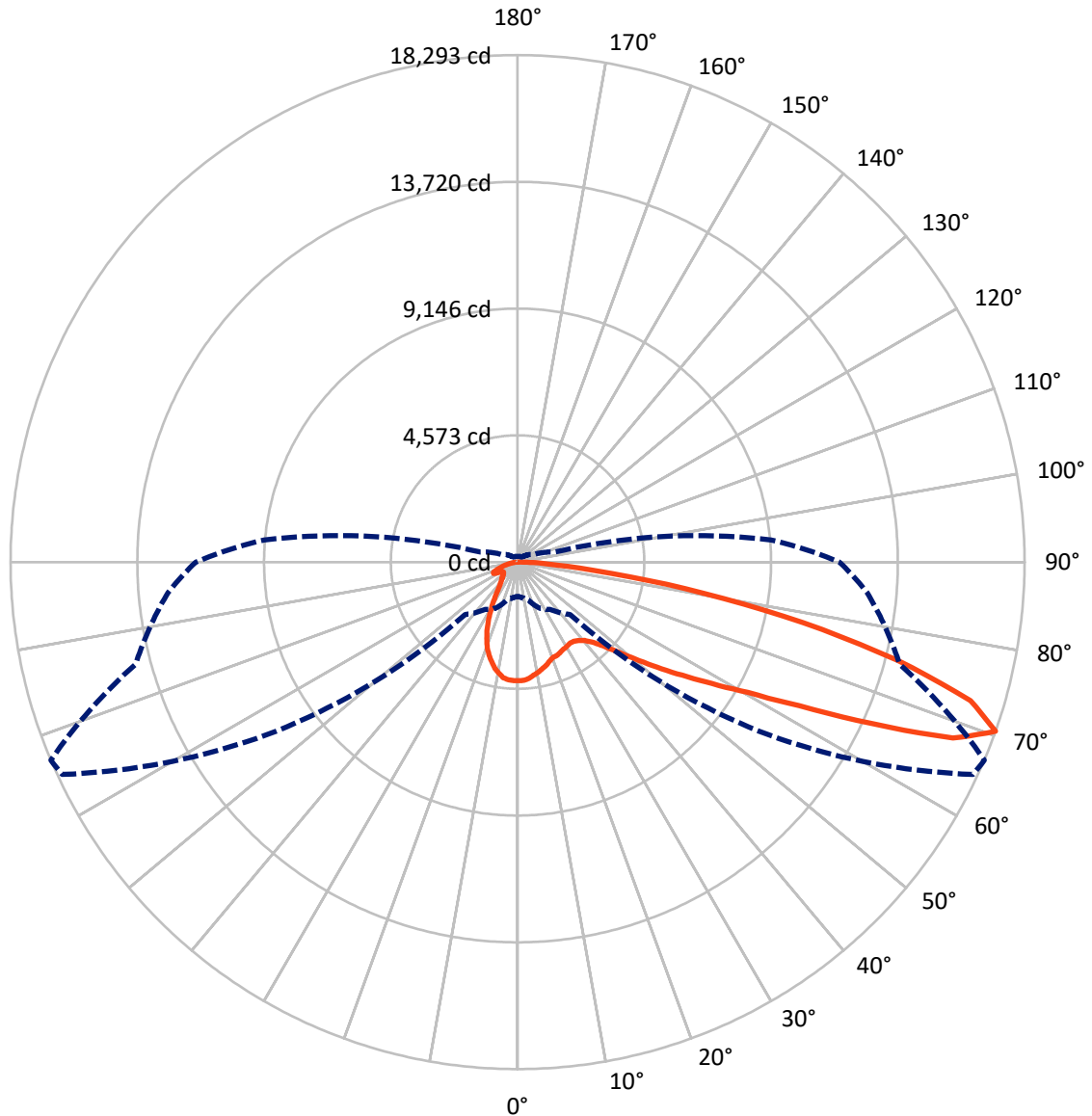
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3595.1	0.0	3595.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	14864.2	0.0	14864.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	18459.4	0.0	18459.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	2.0
10°-20°	893.0	4.8
20°-30°	1205.9	6.5
30°-40°	1613.6	8.7
40°-50°	2372.8	12.9
50°-60°	3698.5	20.0
60°-70°	4556.0	24.7
70°-80°	3219.2	17.4
80°-90°	527.6	2.9
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°	18459.4	100.0
0°-180°	18459.4	100.0

Coefficient of Utilization



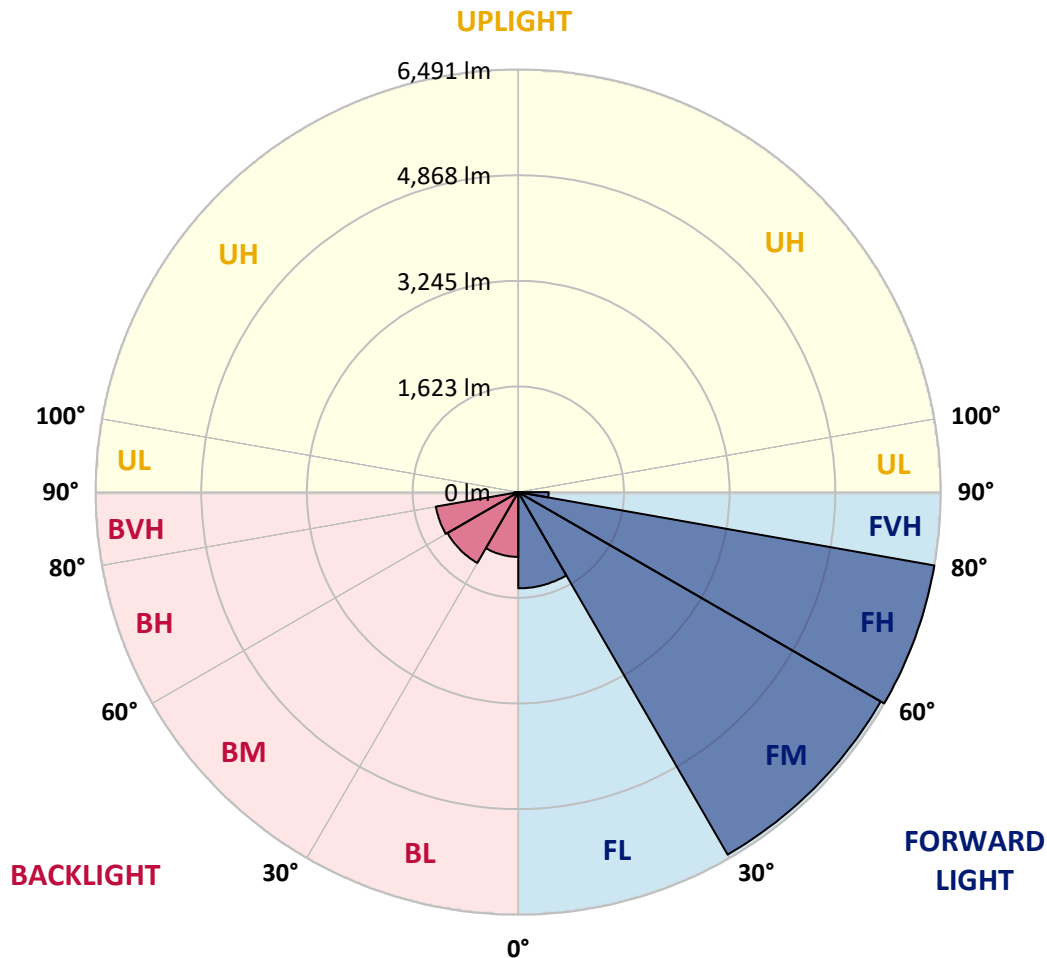
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.5	8.0			
FM (30°-60°)	6429.0	34.8			
FH (60°-80°)	6490.9	35.2			G3/7500
FVH (80°-90°)	466.8	2.5			G3/500
BL (0°-30°)	994.2	5.4	B2/1000		
BM (30°-60°)	1255.9	6.8	B2/2500		
BH (60°-80°)	1284.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	60.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3
2.5°	3979.0	4024.0	4040.3	4064.8	4128.2	4175.2	4203.8	4236.5	4275.3	4308.0	4328.5
5°	3701.1	3725.6	3764.4	3791.0	3870.7	3997.4	4083.2	4222.2	4218.1	4269.2	4346.9
7.5°	3431.3	3455.8	3474.2	3527.4	3641.8	3756.2	3913.6	4138.4	4122.1	4240.6	4361.2
10°	3263.7	3245.3	3251.5	3341.4	3431.3	3560.0	3758.3	3987.2	4046.4	4230.4	4402.0
12.5°	3106.4	3085.9	3135.0	3192.2	3302.5	3419.0	3656.1	3862.5	3952.4	4193.6	4420.4
15°	3008.3	2994.0	3055.3	3079.8	3210.6	3349.6	3517.1	3768.5	3866.6	4148.6	4391.8
17.5°	2953.1	2965.3	2987.8	3041.0	3124.8	3243.3	3427.2	3705.1	3748.1	4093.4	4385.7
20°	2963.3	2977.6	2979.7	3002.1	3059.4	3151.3	3339.3	3637.7	3666.3	4083.2	4402.0
22.5°	3045.0	3024.6	3032.8	3018.5	3034.8	3106.4	3271.9	3547.8	3658.1	3997.4	4367.3
25°	3167.7	3139.1	3135.0	3085.9	3055.3	3075.7	3259.6	3525.3	3596.8	3970.8	4365.3
27.5°	3384.3	3341.4	3341.4	3267.8	3143.1	3110.4	3224.9	3488.5	3551.9	3946.3	4318.2
30°	3592.7	3592.7	3594.8	3490.6	3351.6	3190.1	3239.2	3474.2	3515.1	3872.7	4254.9
32.5°	3846.2	3840.0	3829.8	3778.7	3564.1	3323.0	3308.7	3455.8	3476.3	3848.2	4236.5
35°	4093.4	4077.1	4156.8	4111.8	3893.2	3582.5	3380.2	3464.0	3509.0	3811.4	4179.3
37.5°	4279.4	4289.6	4455.2	4483.8	4295.8	3876.8	3582.5	3545.7	3588.7	3864.6	4179.3
40°	4520.6	4561.4	4716.8	4812.8	4698.4	4265.1	3903.4	3682.7	3713.3	3983.1	4269.2
42.5°	4837.3	4872.1	5070.3	5195.0	5162.3	4759.7	4220.2	3968.8	3944.3	4181.3	4404.1
45°	5256.3	5262.4	5462.7	5634.4	5701.8	5276.7	4722.9	4330.5	4310.1	4522.6	4651.4
47.5°	5754.9	5748.8	5873.5	6057.4	6239.3	5893.9	5301.2	4880.3	4806.7	5011.0	5062.1
50°	6237.2	6210.7	6239.3	6474.3	6823.8	6666.4	6004.3	5552.6	5479.0	5591.4	5679.3
52.5°	6502.9	6535.6	6458.0	6768.6	7445.0	7579.9	6936.2	6355.8	6292.4	6347.6	6500.9
55°	6316.9	6384.4	6333.3	6627.6	7716.8	8693.7	8141.9	7285.6	7203.9	7183.5	7434.8
57.5°	5526.0	5648.7	5658.9	6124.8	7622.8	9556.1	9838.2	8383.1	8260.5	8052.0	8311.6
60°	4242.6	4365.3	4459.3	5011.0	6817.6	10071.1	11804.2	9944.4	9539.8	9000.3	9155.6
62.5°	2973.5	3057.3	3151.3	3490.6	5256.3	9768.7	13504.5	12143.4	11397.5	9999.6	10193.8
65°	2166.3	2231.7	2327.7	2528.0	3229.0	8082.7	14293.3	14755.2	14048.1	11270.8	11246.2
67.5°	1630.8	1671.7	1798.4	2119.3	2237.8	4992.7	13475.9	17514.1	16941.9	12682.9	12092.3
70°	1234.4	1269.1	1387.6	1827.0	2090.7	2677.2	10631.1	18129.3	18292.8	14266.8	12660.5
72.5°	850.2	889.0	1021.8	1522.5	1990.5	2123.4	6672.5	16469.8	17089.1	14918.7	12051.4
75°	521.1	547.7	625.4	1154.7	1976.2	2076.4	3672.5	13496.3	14152.3	13784.5	10543.2
77.5°	367.9	365.8	380.1	676.5	1712.6	2088.6	2264.4	9889.3	10526.9	10159.0	7154.8
80°	267.7	269.8	284.1	404.6	1162.8	2123.4	1784.1	6623.5	6813.6	5297.2	2822.3
82.5°	161.4	169.6	204.4	273.8	698.9	1916.9	1649.2	3680.6	3443.6	1700.3	776.6
85°	85.8	85.8	120.6	173.7	371.9	1430.6	1587.9	1751.4	1467.3	527.3	288.2
87.5°	20.4	20.4	34.7	69.5	149.2	684.6	1083.1	696.9	557.9	177.8	118.5
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°	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3
2.5°	4320.3	4295.8	4326.4	4265.1	4216.1	4218.1	4142.5	4138.4	4128.2	4075.1	4093.4
5°	4369.3	4348.9	4314.2	4246.7	4138.4	4030.1	3964.7	3880.9	3846.2	3827.8	3835.9
7.5°	4416.3	4379.6	4279.4	4185.4	4017.8	3813.5	3694.9	3582.5	3439.5	3423.1	3394.5
10°	4428.6	4350.9	4222.2	4021.9	3799.2	3572.3	3302.5	3094.1	2983.7	2897.9	2865.2
12.5°	4410.2	4377.5	4130.2	3872.7	3535.5	3179.9	2865.2	2570.9	2366.6	2260.3	2231.7
15°	4408.2	4350.9	4028.0	3645.9	3214.7	2750.8	2303.2	1949.6	1735.1	1647.2	1647.2
17.5°	4410.2	4273.3	3907.5	3417.0	2836.6	2209.2	1716.7	1426.5	1307.9	1295.7	1305.9
20°	4369.3	4216.1	3780.8	3147.2	2362.5	1659.4	1246.6	1128.1	1128.1	1144.4	1150.6
22.5°	4332.6	4130.2	3580.5	2814.1	1880.2	1201.7	1013.7	978.9	1017.7	1046.4	1058.6
25°	4281.5	4058.7	3376.1	2468.7	1430.6	968.7	880.8	889.0	925.8	976.9	972.8
27.5°	4207.9	3934.0	3132.9	2068.2	1064.7	835.9	813.4	817.5	856.3	878.8	874.7
30°	4124.1	3807.3	2908.1	1669.7	844.0	766.4	764.3	774.5	780.7	792.9	790.9
32.5°	4017.8	3639.8	2669.0	1297.7	760.2	727.5	719.4	713.2	719.4	717.3	711.2
35°	3942.2	3549.8	2425.8	989.1	713.2	692.8	686.7	676.5	668.3	656.0	654.0
37.5°	3921.8	3459.9	2170.4	807.2	676.5	666.2	645.8	627.4	617.2	611.1	607.0
40°	3909.5	3400.6	1921.0	709.1	645.8	635.6	611.1	586.5	576.3	570.2	572.2
42.5°	3952.4	3367.9	1667.6	660.1	619.2	600.8	574.3	545.7	543.6	539.5	545.7
45°	4103.7	3408.8	1432.6	625.4	592.7	562.0	527.3	513.0	510.9	506.8	510.9
47.5°	4447.0	3511.0	1232.3	602.9	564.0	537.5	500.7	480.3	478.2	476.2	476.2
50°	4921.1	3825.7	1064.7	576.3	545.7	508.9	474.1	451.6	447.6	439.4	439.4
52.5°	5665.0	4355.0	964.6	562.0	513.0	482.3	445.5	421.0	410.8	402.6	402.6
55°	6502.9	5011.0	946.2	537.5	478.2	449.6	416.9	392.4	382.2	371.9	367.9
57.5°	7457.3	5879.6	1077.0	521.1	453.7	416.9	380.1	357.6	349.5	339.2	335.2
60°	8346.3	6746.1	1483.7	496.6	431.2	386.3	349.5	327.0	316.8	306.5	306.5
62.5°	9374.3	7819.0	2172.4	496.6	410.8	353.6	316.8	300.4	294.3	284.1	282.0
65°	10590.2	8928.7	2675.1	527.3	404.6	324.9	286.1	269.8	263.6	257.5	255.5
67.5°	11516.0	9566.4	2301.2	609.0	431.2	300.4	255.5	245.2	241.2	235.0	230.9
70°	11614.1	9178.1	1387.6	658.1	457.8	275.9	228.9	218.7	218.7	212.5	208.5
72.5°	10733.3	8144.0	934.0	586.5	414.9	247.3	202.3	194.1	190.1	186.0	183.9
75°	8981.9	6907.6	737.8	468.0	318.8	204.4	175.8	167.6	161.4	159.4	155.3
77.5°	6032.9	4489.9	545.7	365.8	235.0	165.5	147.1	139.0	132.8	130.8	124.7
80°	2317.5	1710.5	351.5	265.7	165.5	130.8	116.5	108.3	104.2	98.1	94.0
82.5°	682.6	553.8	196.2	163.5	106.3	89.9	83.8	77.7	71.5	65.4	63.4
85°	282.0	253.4	120.6	85.8	65.4	53.1	49.0	42.9	36.8	32.7	28.6
87.5°	130.8	108.3	55.2	32.7	22.5	12.3	6.1	2.0	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)