

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: P480672

Luminaire Tested: **IFLD-M-SA4A-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480672
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

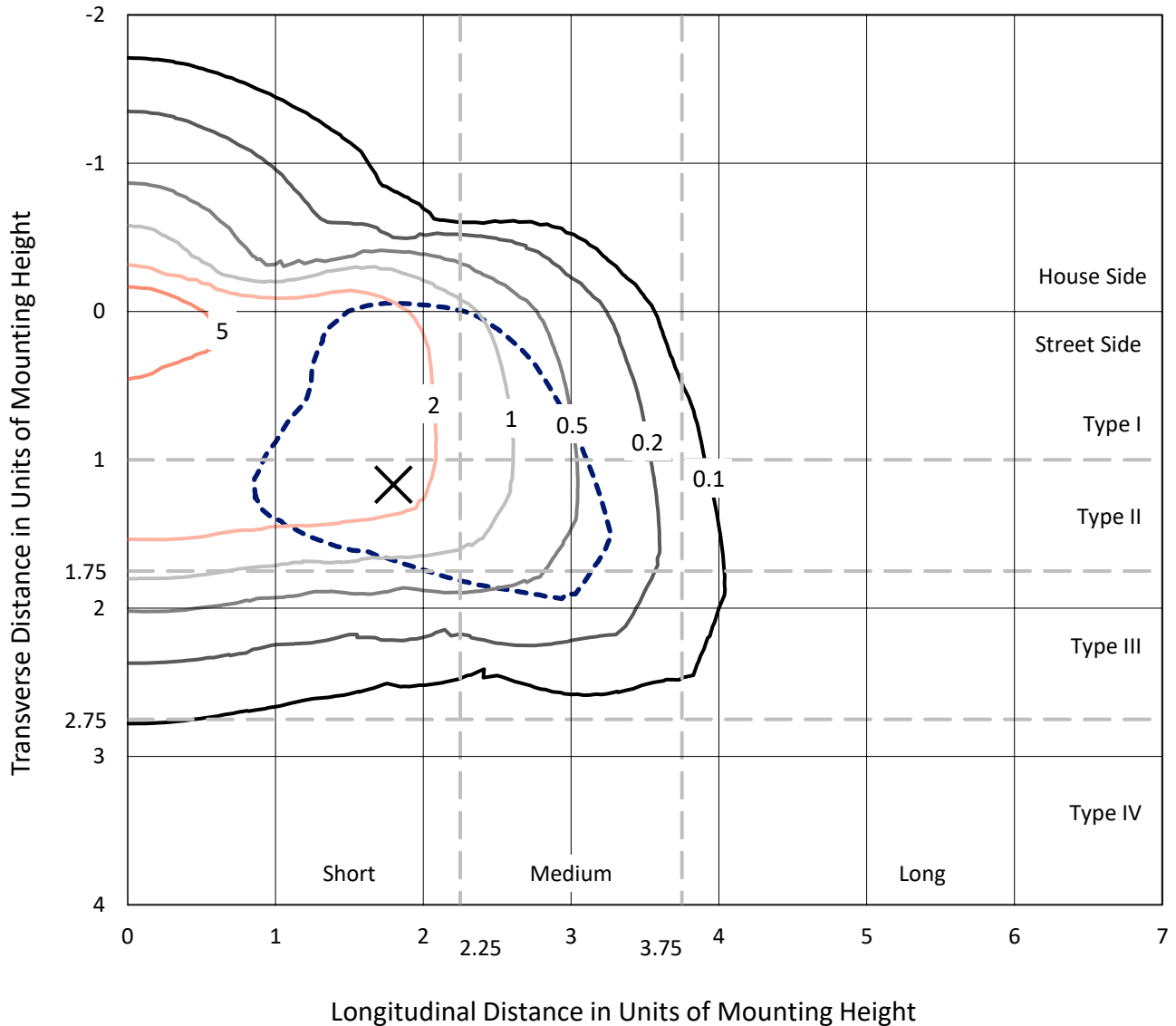
Lumens per Lamp: N/A
Luminaire Lumens: 14479.4 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

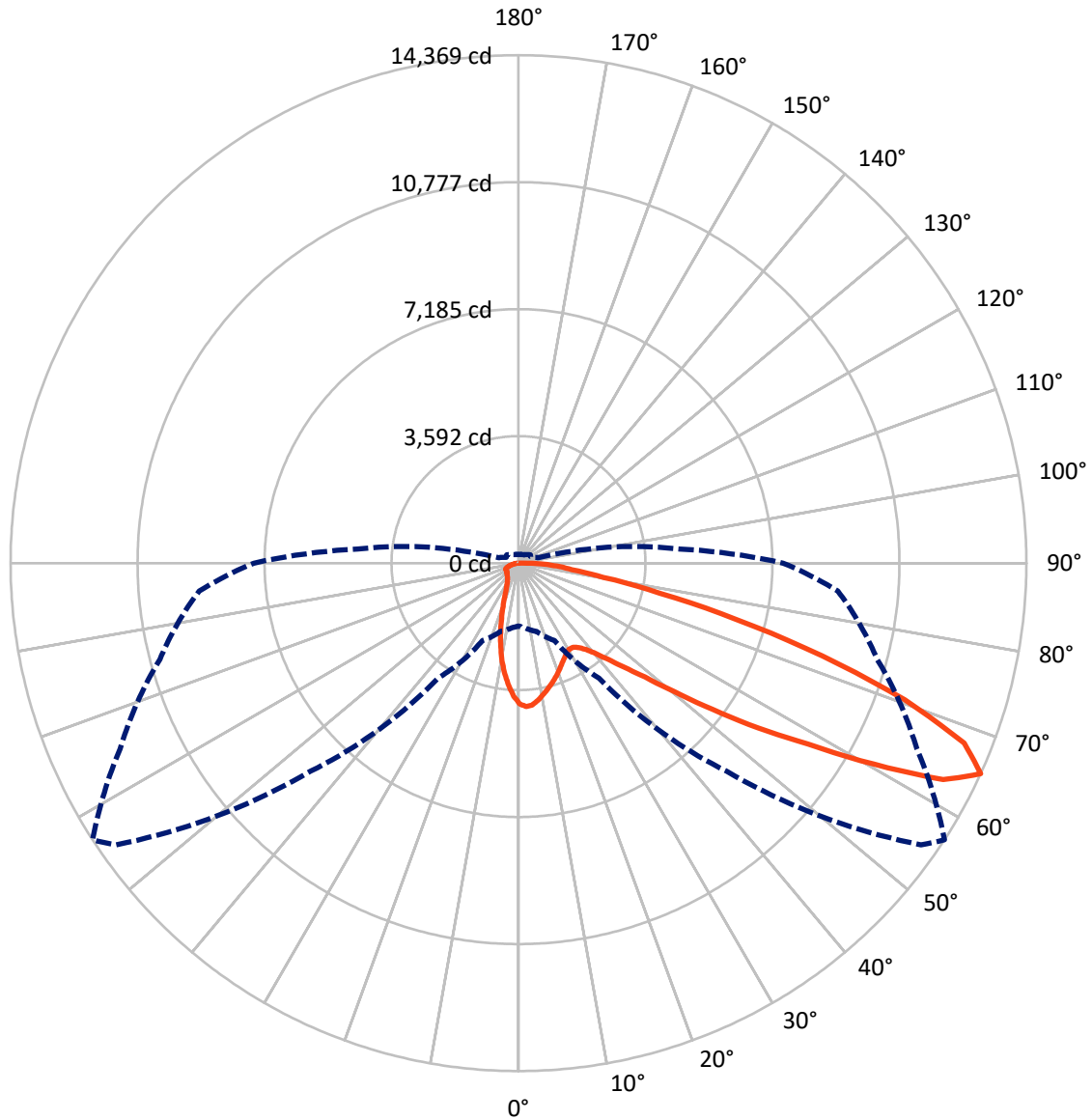
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2220.6	0.0	2220.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	12258.8	0.0	12258.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	14479.4	0.0	14479.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.4	2.3
10°-20°	717.6	5.0
20°-30°	927.8	6.4
30°-40°	1248.5	8.6
40°-50°	1990.8	13.7
50°-60°	3516.2	24.3
60°-70°	3868.3	26.7
70°-80°	1618.2	11.2
80°-90°	258.6	1.8
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°	14479.4	100.0
0°-180°	14479.4	100.0

Coefficient of Utilization



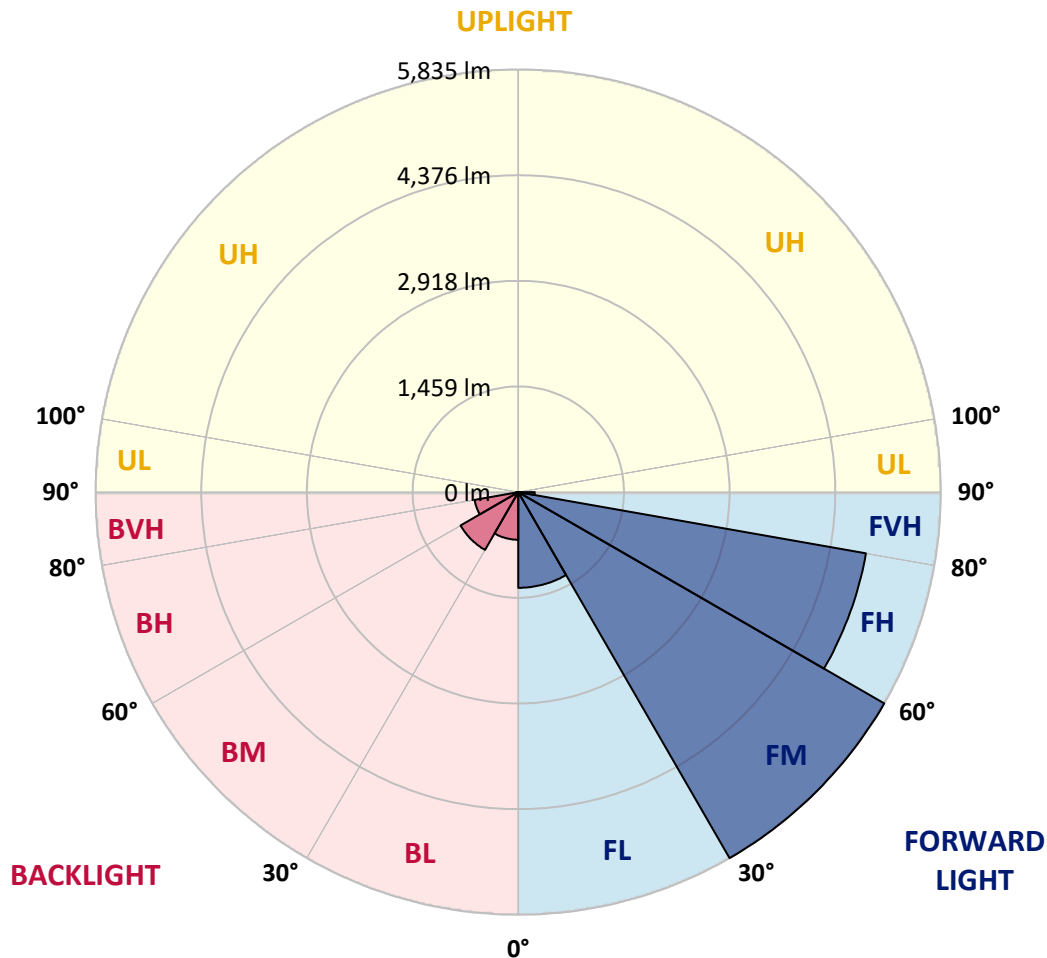
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.2	9.1			
FM (30°-60°)	5835.2	40.3			
FH (60°-80°)	4874.2	33.7			G2/5000
FVH (80°-90°)	228.3	1.6			G3/500
BL (0°-30°)	657.6	4.5	B2/1000		
BM (30°-60°)	920.3	6.4	B1/1000		
BH (60°-80°)	612.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	30.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6
2.5°	4089.1	4095.7	4095.7	4108.7	4064.7	4085.9	4082.6	4063.1	4069.6	4035.4	4001.2
5°	3973.5	3968.6	3994.7	3997.9	4032.1	4041.9	4050.0	4037.0	4040.3	3965.3	3932.8
7.5°	3677.0	3675.3	3719.3	3756.8	3828.5	3895.3	3939.3	3926.2	3944.2	3896.9	3820.3
10°	3325.1	3362.6	3408.2	3445.6	3577.6	3662.3	3776.4	3787.8	3856.2	3844.8	3706.3
12.5°	3061.2	3077.5	3111.7	3219.2	3339.7	3479.8	3642.8	3657.4	3724.2	3756.8	3636.2
15°	2844.5	2859.1	2903.1	2983.0	3118.2	3284.4	3491.3	3528.7	3662.3	3673.7	3545.0
17.5°	2686.5	2697.9	2727.2	2807.0	2917.8	3131.2	3326.7	3393.5	3569.5	3624.8	3450.5
20°	2624.5	2600.1	2616.4	2666.9	2777.7	2942.2	3194.7	3253.4	3478.2	3587.4	3360.9
22.5°	2596.9	2575.7	2585.4	2582.2	2670.2	2787.5	3053.0	3114.9	3391.9	3543.4	3281.1
25°	2618.0	2618.0	2608.3	2600.1	2609.9	2686.5	2899.9	2996.0	3276.2	3505.9	3199.6
27.5°	2732.1	2688.1	2693.0	2658.8	2649.0	2649.0	2831.5	2888.5	3238.7	3484.7	3132.8
30°	2805.4	2826.6	2828.2	2777.7	2727.2	2636.0	2767.9	2823.3	3207.8	3510.8	3093.7
32.5°	2992.7	2983.0	2955.3	2945.5	2870.5	2767.9	2798.9	2836.3	3189.9	3569.5	3105.1
35°	3180.1	3175.2	3176.8	3171.9	3093.7	2942.2	2882.0	2932.5	3222.4	3672.1	3144.2
37.5°	3374.0	3387.0	3442.4	3442.4	3359.3	3194.7	3114.9	3100.3	3341.4	3839.9	3237.1
40°	3567.8	3600.4	3670.5	3781.2	3663.9	3510.8	3382.1	3359.3	3484.7	4064.7	3460.3
42.5°	3753.5	3807.3	3945.8	4110.3	4071.2	3918.1	3747.0	3721.0	3779.6	4398.7	3771.5
45°	3991.4	4037.0	4255.3	4507.8	4561.6	4426.4	4226.0	4204.8	4201.6	4887.4	4199.9
47.5°	4353.1	4401.9	4620.2	4874.4	5040.6	5061.7	4836.9	4814.1	4735.9	5547.2	4827.2
50°	4806.0	4885.8	5069.9	5366.4	5607.5	5834.0	5770.4	5703.6	5550.5	6314.6	5622.2
52.5°	5136.7	5234.4	5483.7	5863.3	6288.5	6648.5	6876.6	6876.6	6524.7	7156.8	6578.5
55°	5224.7	5283.3	5597.7	6146.8	6875.0	7785.7	8263.0	8227.2	7684.7	8043.1	7691.2
57.5°	4874.4	4951.0	5332.2	5907.3	7182.9	8849.5	9639.6	9647.8	8952.1	9072.7	8789.2
60°	3909.9	3934.4	4384.0	5153.0	6886.4	9706.4	11519.7	11550.6	10393.9	9989.9	9348.0
62.5°	2702.7	2780.9	3119.8	3794.3	5705.3	9610.3	13332.9	13486.0	11549.0	10473.8	9436.0
65°	1779.0	1826.3	2007.1	2417.6	3971.9	8329.8	13896.6	14369.0	12432.0	10501.5	9067.8
67.5°	1290.3	1298.4	1352.2	1564.0	2386.7	5990.4	12933.8	13600.1	12762.7	10270.1	8204.4
70°	1042.7	1049.2	1068.7	1203.9	1541.2	3748.7	10548.7	11593.0	11770.6	9173.7	6607.8
72.5°	847.2	855.3	879.7	1006.8	1270.7	2085.3	7714.0	8986.4	9574.5	6787.0	4392.2
75°	666.3	672.8	731.5	856.9	1194.2	1432.0	5117.1	6363.4	6443.3	3967.0	2056.0
77.5°	456.2	467.6	539.2	726.6	1124.1	1252.8	3189.9	4076.1	3657.4	1552.6	707.0
80°	290.0	306.3	348.6	550.7	993.8	1195.8	1984.3	2433.9	1601.4	531.1	340.5
82.5°	171.1	187.4	229.7	356.8	780.4	1109.4	1397.8	1523.2	751.0	272.1	205.3
85°	94.5	105.9	138.5	215.0	457.8	985.6	1119.2	1093.2	430.1	145.0	128.7
87.5°	31.0	35.8	50.5	86.3	189.0	464.3	671.2	630.5	223.2	66.8	50.5
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°	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6
2.5°	3978.4	3973.5	3900.2	3844.8	3750.3	3672.1	3641.1	3598.8	3597.1	3566.2	3558.0
5°	3882.2	3831.7	3719.3	3611.8	3444.0	3331.6	3229.0	3157.3	3128.0	3064.4	3049.8
7.5°	3758.4	3691.6	3518.9	3316.9	3119.8	2943.9	2784.2	2624.5	2534.9	2504.0	2469.8
10°	3629.7	3512.4	3256.7	3030.2	2754.9	2484.4	2233.6	2008.7	1886.5	1800.2	1762.7
12.5°	3527.1	3370.7	3044.9	2706.0	2342.7	1981.0	1689.4	1453.2	1314.7	1249.6	1220.2
15°	3411.4	3204.5	2813.5	2385.1	1932.2	1521.6	1236.5	1050.8	995.4	964.5	959.6
17.5°	3289.2	3049.8	2562.6	2069.0	1531.4	1145.3	961.2	886.3	861.8	848.8	842.3
20°	3175.2	2911.3	2305.2	1717.1	1199.0	918.8	832.5	793.4	791.8	798.3	796.7
22.5°	3013.9	2730.4	2051.1	1391.3	957.9	799.9	744.5	734.7	744.5	752.7	755.9
25°	2922.7	2582.2	1767.6	1104.6	791.8	710.3	692.4	689.1	703.8	713.6	711.9
27.5°	2828.2	2429.1	1503.7	884.6	694.0	646.8	643.5	646.8	661.4	676.1	674.5
30°	2754.9	2306.9	1256.1	739.6	619.1	601.2	597.9	601.2	609.3	610.9	610.9
32.5°	2694.6	2161.9	1045.9	641.9	573.5	558.8	562.1	560.4	562.1	563.7	565.3
35°	2658.8	2075.5	873.2	581.6	536.0	524.6	523.0	518.1	519.7	521.3	519.7
37.5°	2735.3	2033.2	736.4	539.2	509.9	500.1	496.9	493.6	488.7	488.7	488.7
40°	2851.0	2010.4	653.3	511.6	490.4	479.0	469.2	465.9	465.9	467.6	469.2
42.5°	3080.7	2047.8	596.3	490.4	465.9	452.9	443.1	444.8	449.6	454.5	451.3
45°	3413.1	2161.9	570.2	474.1	451.3	433.4	426.8	425.2	430.1	438.2	444.8
47.5°	3848.0	2339.4	560.4	459.4	441.5	417.1	408.9	413.8	420.3	431.7	426.8
50°	4560.0	2738.6	568.6	446.4	426.8	408.9	399.1	394.3	399.1	407.3	410.5
52.5°	5490.2	3463.6	599.5	439.9	417.1	402.4	386.1	378.0	382.8	389.4	389.4
55°	6602.9	4454.1	685.9	431.7	400.8	392.6	374.7	358.4	361.7	361.7	360.0
57.5°	7583.7	5201.9	788.5	420.3	391.0	379.6	356.8	337.2	334.0	335.6	337.2
60°	8023.5	5400.6	837.4	417.1	391.0	363.3	332.3	312.8	307.9	304.6	304.6
62.5°	7947.0	5056.9	738.0	402.4	400.8	350.3	309.5	288.4	281.8	275.3	277.0
65°	7484.3	4566.5	581.6	382.8	402.4	342.1	286.7	265.6	254.1	246.0	244.4
67.5°	6638.8	3898.5	461.0	368.2	386.1	327.5	267.2	242.7	233.0	224.8	221.6
70°	5193.7	3056.3	400.8	348.6	347.0	291.6	244.4	223.2	208.5	198.8	198.8
72.5°	3367.4	1932.2	343.7	309.5	299.8	244.4	211.8	198.8	187.4	179.2	179.2
75°	1524.9	897.7	277.0	259.0	244.4	195.5	179.2	172.7	162.9	154.8	154.8
77.5°	547.4	382.8	206.9	203.6	182.5	151.5	145.0	140.1	133.6	125.4	125.4
80°	306.3	242.7	154.8	148.3	127.1	112.4	104.3	104.3	101.0	96.1	94.5
82.5°	193.9	158.0	114.0	99.4	83.1	74.9	71.7	70.1	68.4	61.9	60.3
85°	122.2	107.5	74.9	58.6	48.9	37.5	35.8	34.2	31.0	27.7	27.7
87.5°	55.4	61.9	29.3	17.9	13.0	8.1	4.9	1.6	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)