

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: P480535

Luminaire Tested: **IFLD-S-SA3A-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480535
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

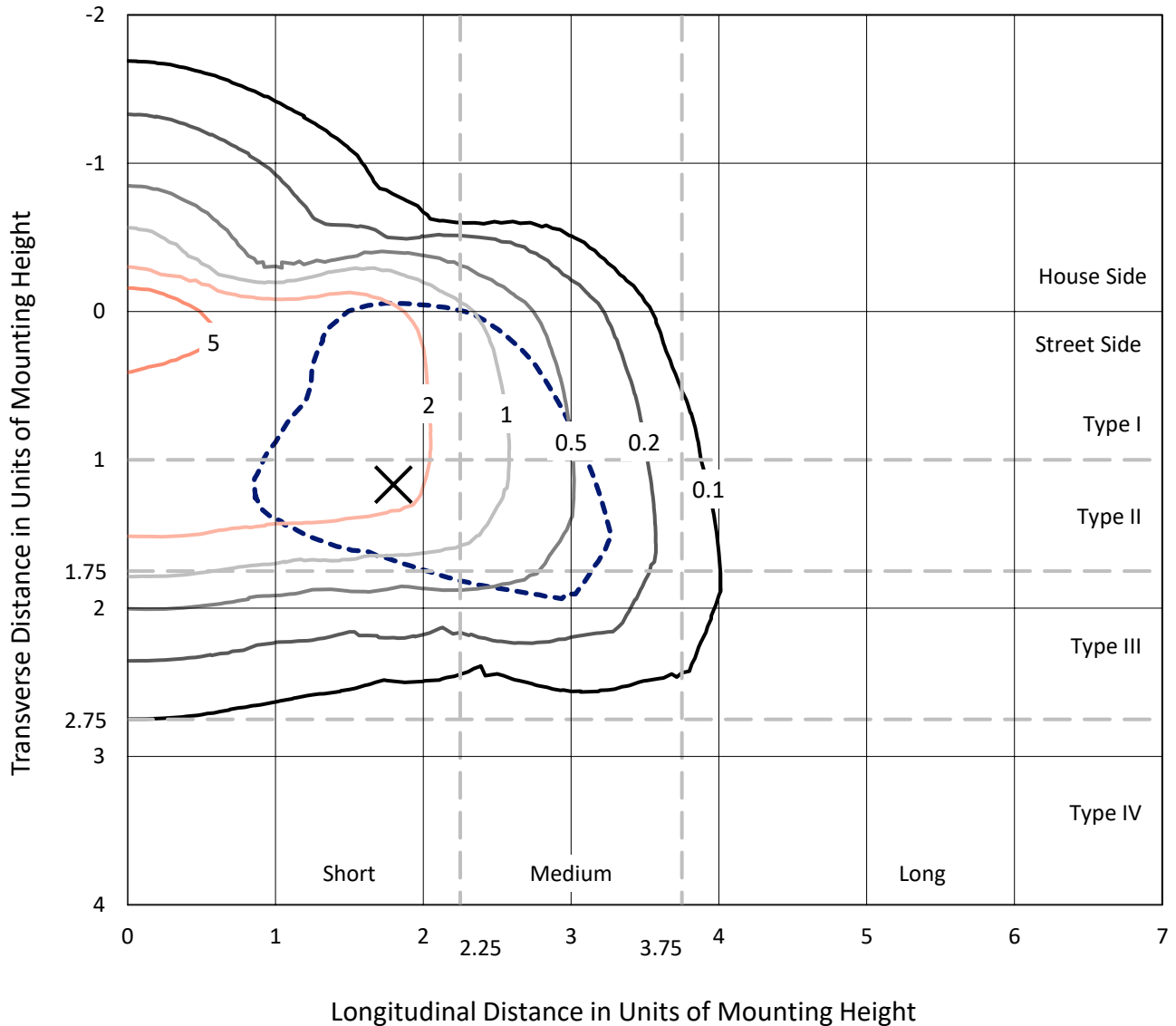
Lumens per Lamp: N/A
Luminaire Lumens: 13886.8 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

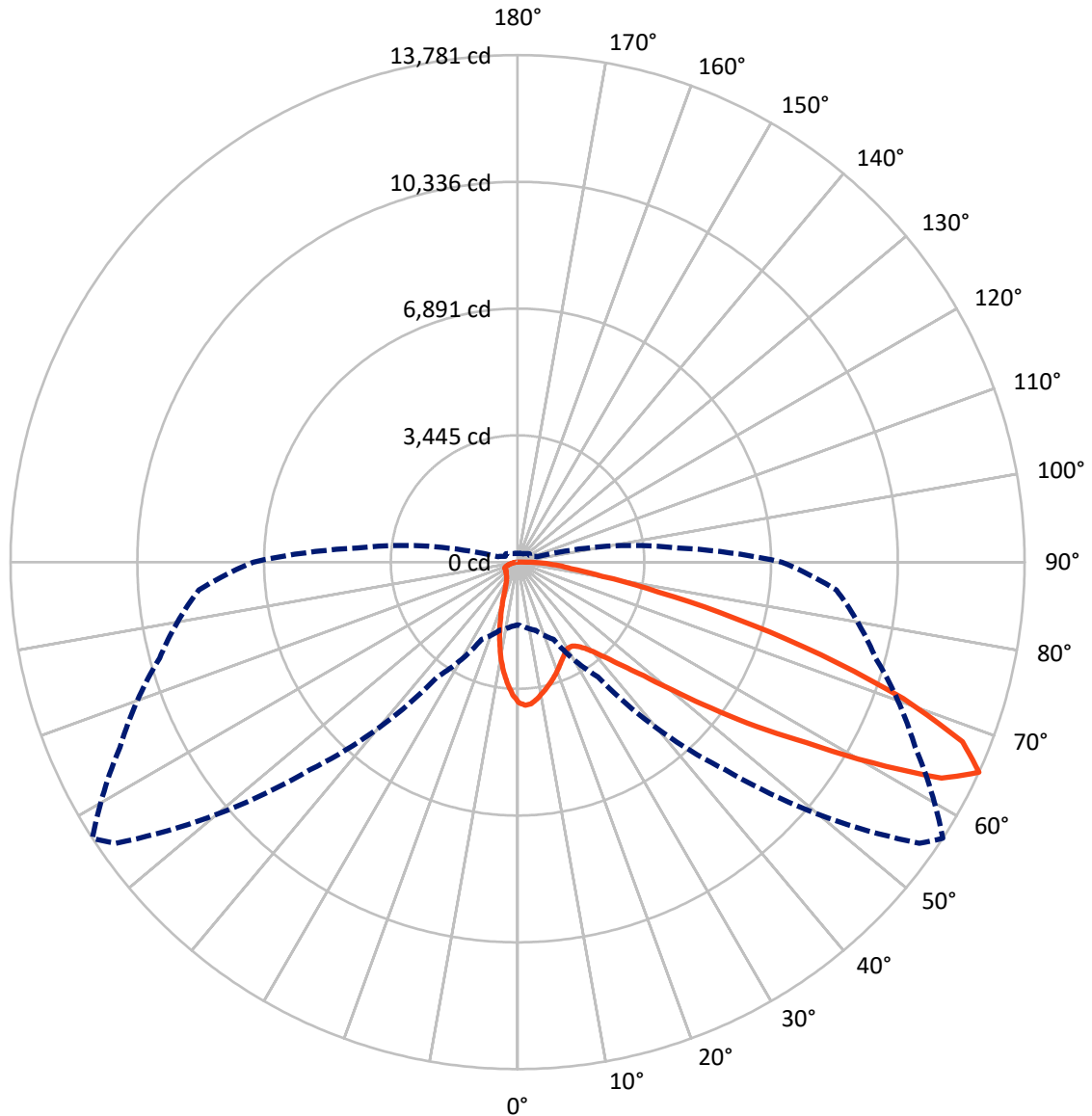
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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	2129.7	0.0	2129.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11757.1	0.0	11757.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	13886.8	0.0	13886.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.8	2.3
10°-20°	688.2	5.0
20°-30°	889.8	6.4
30°-40°	1197.4	8.6
40°-50°	1909.3	13.7
50°-60°	3372.3	24.3
60°-70°	3710.0	26.7
70°-80°	1551.9	11.2
80°-90°	248.0	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°	13886.8	100.0
0°-180°	13886.8	100.0

Coefficient of Utilization



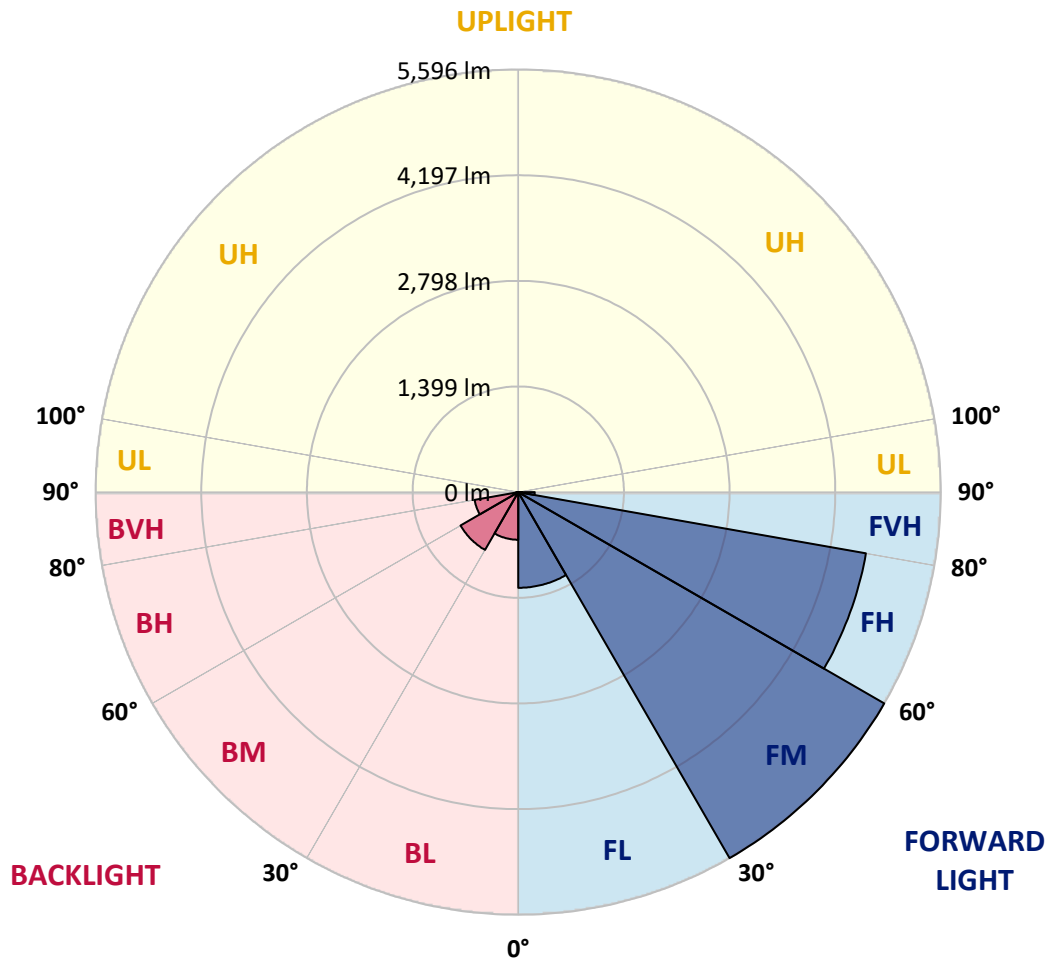
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.1	9.1			
FM (30°-60°)	5596.4	40.3			
FH (60°-80°)	4674.7	33.7			G2/5000
FVH (80°-90°)	218.9	1.6			G2/225
BL (0°-30°)	630.7	4.5	B2/1000		
BM (30°-60°)	882.7	6.4	B1/1000		
BH (60°-80°)	587.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7
2.5°	3921.8	3928.0	3928.0	3940.5	3898.4	3918.7	3915.5	3896.8	3903.0	3870.2	3837.4
5°	3810.9	3806.2	3831.2	3834.3	3867.1	3876.5	3884.3	3871.8	3874.9	3803.0	3771.8
7.5°	3526.5	3524.9	3567.1	3603.0	3671.8	3735.9	3778.0	3765.5	3782.7	3737.4	3664.0
10°	3189.0	3224.9	3268.7	3304.6	3431.2	3512.4	3621.8	3632.7	3698.4	3687.4	3554.6
12.5°	2935.9	2951.5	2984.3	3087.4	3203.1	3337.4	3493.7	3507.7	3571.8	3603.0	3487.4
15°	2728.1	2742.1	2784.3	2860.9	2990.6	3149.9	3348.4	3384.3	3512.4	3523.4	3399.9
17.5°	2576.5	2587.4	2615.6	2692.1	2798.4	3003.1	3190.6	3254.6	3423.4	3476.5	3309.3
20°	2517.1	2493.7	2509.3	2557.8	2664.0	2821.8	3064.0	3120.2	3335.9	3440.6	3223.4
22.5°	2490.6	2470.3	2479.6	2476.5	2560.9	2673.4	2928.1	2987.4	3253.1	3398.4	3146.8
25°	2510.9	2510.9	2501.5	2493.7	2503.1	2576.5	2781.2	2873.4	3142.1	3362.4	3068.7
27.5°	2620.3	2578.1	2582.8	2549.9	2540.6	2540.6	2715.6	2770.3	3106.2	3342.1	3004.6
30°	2690.6	2710.9	2712.4	2664.0	2615.6	2528.1	2654.6	2707.8	3076.5	3367.1	2967.1
32.5°	2870.3	2860.9	2834.3	2824.9	2753.1	2654.6	2684.3	2720.3	3059.3	3423.4	2978.1
35°	3049.9	3045.2	3046.8	3042.1	2967.1	2821.8	2764.0	2812.4	3090.6	3521.8	3015.6
37.5°	3235.9	3248.4	3301.5	3301.5	3221.8	3064.0	2987.4	2973.4	3204.6	3682.7	3104.6
40°	3421.8	3453.1	3520.2	3626.5	3514.0	3367.1	3243.7	3221.8	3342.1	3898.4	3318.7
42.5°	3599.9	3651.5	3784.3	3942.1	3904.6	3757.7	3593.7	3568.7	3624.9	4218.7	3617.1
45°	3828.0	3871.8	4081.2	4323.3	4374.9	4245.2	4053.0	4032.7	4029.6	4687.4	4028.0
47.5°	4174.9	4221.8	4431.2	4674.9	4834.3	4854.6	4639.0	4617.1	4542.1	5320.2	4629.6
50°	4609.3	4685.8	4862.4	5146.8	5378.0	5595.2	5534.3	5470.2	5323.3	6056.1	5392.1
52.5°	4926.5	5020.2	5259.3	5623.3	6031.1	6376.4	6595.2	6595.2	6257.7	6863.9	6309.2
55°	5010.8	5067.1	5368.6	5895.2	6593.6	7467.0	7924.8	7890.5	7370.2	7713.9	7376.4
57.5°	4674.9	4748.3	5114.0	5665.5	6888.9	8487.3	9245.1	9252.9	8585.8	8701.4	8429.5
60°	3749.9	3773.4	4204.6	4942.1	6604.5	9309.2	11048.2	11077.9	9968.5	9581.0	8965.4
62.5°	2592.1	2667.1	2992.1	3639.0	5471.8	9217.0	12787.2	12934.1	11076.3	10045.1	9049.8
65°	1706.2	1751.5	1925.0	2318.7	3809.3	7988.9	13327.8	13781.0	11923.2	10071.7	8696.7
67.5°	1237.5	1245.3	1296.8	1500.0	2289.0	5745.2	12404.4	13043.5	12240.4	9849.8	7868.6
70°	1000.0	1006.2	1025.0	1154.7	1478.1	3595.2	10117.0	11118.5	11288.8	8798.2	6337.4
72.5°	812.5	820.3	843.7	965.6	1218.7	2000.0	7398.3	8618.6	9182.6	6509.2	4212.4
75°	639.0	645.3	701.5	821.9	1145.3	1373.4	4907.7	6103.0	6179.6	3804.6	1971.8
77.5°	437.5	448.4	517.2	696.9	1078.1	1201.5	3059.3	3909.3	3507.7	1489.0	678.1
80°	278.1	293.7	334.4	528.1	953.1	1146.9	1903.1	2334.3	1535.9	509.4	326.6
82.5°	164.1	179.7	220.3	342.2	748.4	1064.0	1340.6	1460.9	720.3	260.9	196.9
85°	90.6	101.6	132.8	206.2	439.1	945.3	1073.4	1048.4	412.5	139.1	123.4
87.5°	29.7	34.4	48.4	82.8	181.2	445.3	643.7	604.7	214.1	64.1	48.4
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°	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7	3818.7
2.5°	3815.5	3810.9	3740.5	3687.4	3596.8	3521.8	3492.1	3451.5	3449.9	3420.2	3412.4
5°	3723.4	3674.9	3567.1	3464.0	3303.1	3195.2	3096.8	3028.1	2999.9	2939.0	2924.9
7.5°	3604.6	3540.5	3374.9	3181.2	2992.1	2823.4	2670.3	2517.1	2431.2	2401.5	2368.7
10°	3481.2	3368.7	3123.4	2906.2	2642.1	2382.8	2142.1	1926.5	1809.3	1726.5	1690.6
12.5°	3382.7	3232.7	2920.2	2595.3	2246.8	1900.0	1620.3	1393.7	1260.9	1198.4	1170.3
15°	3271.8	3073.4	2698.4	2287.5	1853.1	1459.3	1185.9	1007.8	954.7	925.0	920.3
17.5°	3154.6	2924.9	2457.8	1984.3	1468.7	1098.4	921.9	850.0	826.5	814.0	807.8
20°	3045.2	2792.1	2210.9	1646.8	1150.0	881.2	798.4	760.9	759.4	765.6	764.0
22.5°	2890.6	2618.7	1967.1	1334.3	918.7	767.2	714.0	704.7	714.0	721.9	725.0
25°	2803.1	2476.5	1695.3	1059.4	759.4	681.2	664.0	660.9	675.0	684.4	682.8
27.5°	2712.4	2329.6	1442.2	848.4	665.6	620.3	617.2	620.3	634.4	648.4	646.9
30°	2642.1	2212.5	1204.7	709.4	593.7	576.6	573.4	576.6	584.4	585.9	585.9
32.5°	2584.3	2073.4	1003.1	615.6	550.0	535.9	539.1	537.5	539.1	540.6	542.2
35°	2549.9	1990.6	837.5	557.8	514.1	503.1	501.6	496.9	498.4	500.0	498.4
37.5°	2623.4	1950.0	706.2	517.2	489.1	479.7	476.6	473.4	468.7	468.7	468.7
40°	2734.3	1928.1	626.5	490.6	470.3	459.4	450.0	446.9	446.9	448.4	450.0
42.5°	2954.6	1964.0	571.9	470.3	446.9	434.4	425.0	426.6	431.2	435.9	432.8
45°	3273.4	2073.4	546.9	454.7	432.8	415.6	409.4	407.8	412.5	420.3	426.6
47.5°	3690.5	2243.7	537.5	440.6	423.4	400.0	392.2	396.9	403.1	414.1	409.4
50°	4373.3	2626.5	545.3	428.1	409.4	392.2	382.8	378.1	382.8	390.6	393.7
52.5°	5265.5	3321.8	575.0	421.9	400.0	385.9	370.3	362.5	367.2	373.4	373.4
55°	6332.7	4271.8	657.8	414.1	384.4	376.6	359.4	343.7	346.9	346.9	345.3
57.5°	7273.3	4989.0	756.2	403.1	375.0	364.1	342.2	323.4	320.3	321.9	323.4
60°	7695.1	5179.6	803.1	400.0	375.0	348.4	318.7	300.0	295.3	292.2	292.2
62.5°	7621.7	4849.9	707.8	385.9	384.4	335.9	296.9	276.6	270.3	264.1	265.6
65°	7178.0	4379.6	557.8	367.2	385.9	328.1	275.0	254.7	243.7	235.9	234.4
67.5°	6367.1	3739.0	442.2	353.1	370.3	314.1	256.2	232.8	223.4	215.6	212.5
70°	4981.1	2931.2	384.4	334.4	332.8	279.7	234.4	214.1	200.0	190.6	190.6
72.5°	3229.6	1853.1	329.7	296.9	287.5	234.4	203.1	190.6	179.7	171.9	171.9
75°	1462.5	860.9	265.6	248.4	234.4	187.5	171.9	165.6	156.2	148.4	148.4
77.5°	525.0	367.2	198.4	195.3	175.0	145.3	139.1	134.4	128.1	120.3	120.3
80°	293.7	232.8	148.4	142.2	121.9	107.8	100.0	100.0	96.9	92.2	90.6
82.5°	185.9	151.6	109.4	95.3	79.7	71.9	68.7	67.2	65.6	59.4	57.8
85°	117.2	103.1	71.9	56.2	46.9	35.9	34.4	32.8	29.7	26.6	26.6
87.5°	53.1	59.4	28.1	17.2	12.5	7.8	4.7	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)