

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: P480104

Luminaire Tested: **IFLD-S-SA2D-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480104
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

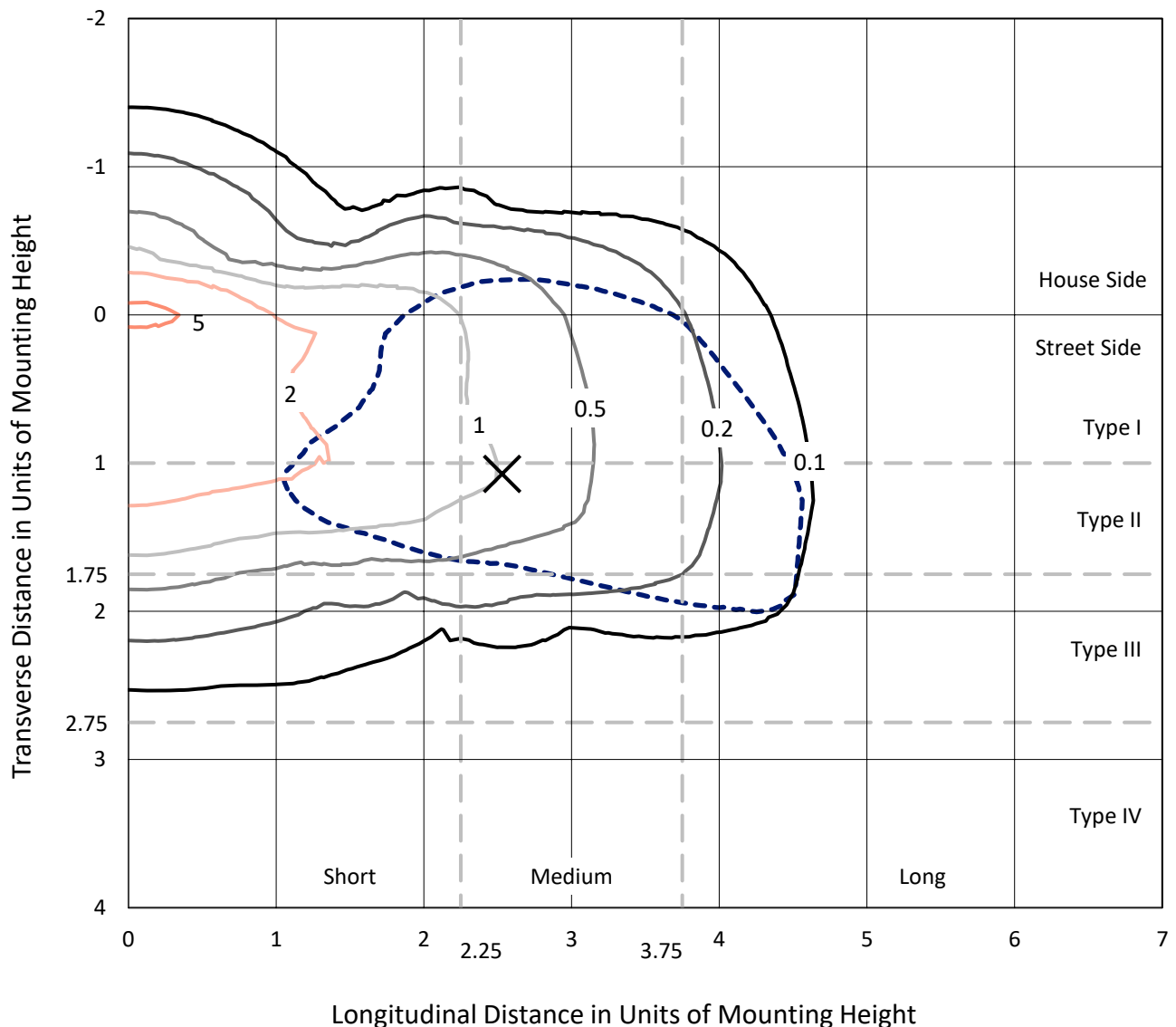
Lumens per Lamp: N/A
Luminaire Lumens: 15593.5 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 123.9
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

REPORT NUMBER: P480104
 CATALOG NUMBER: IFLD-S-SA2D-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

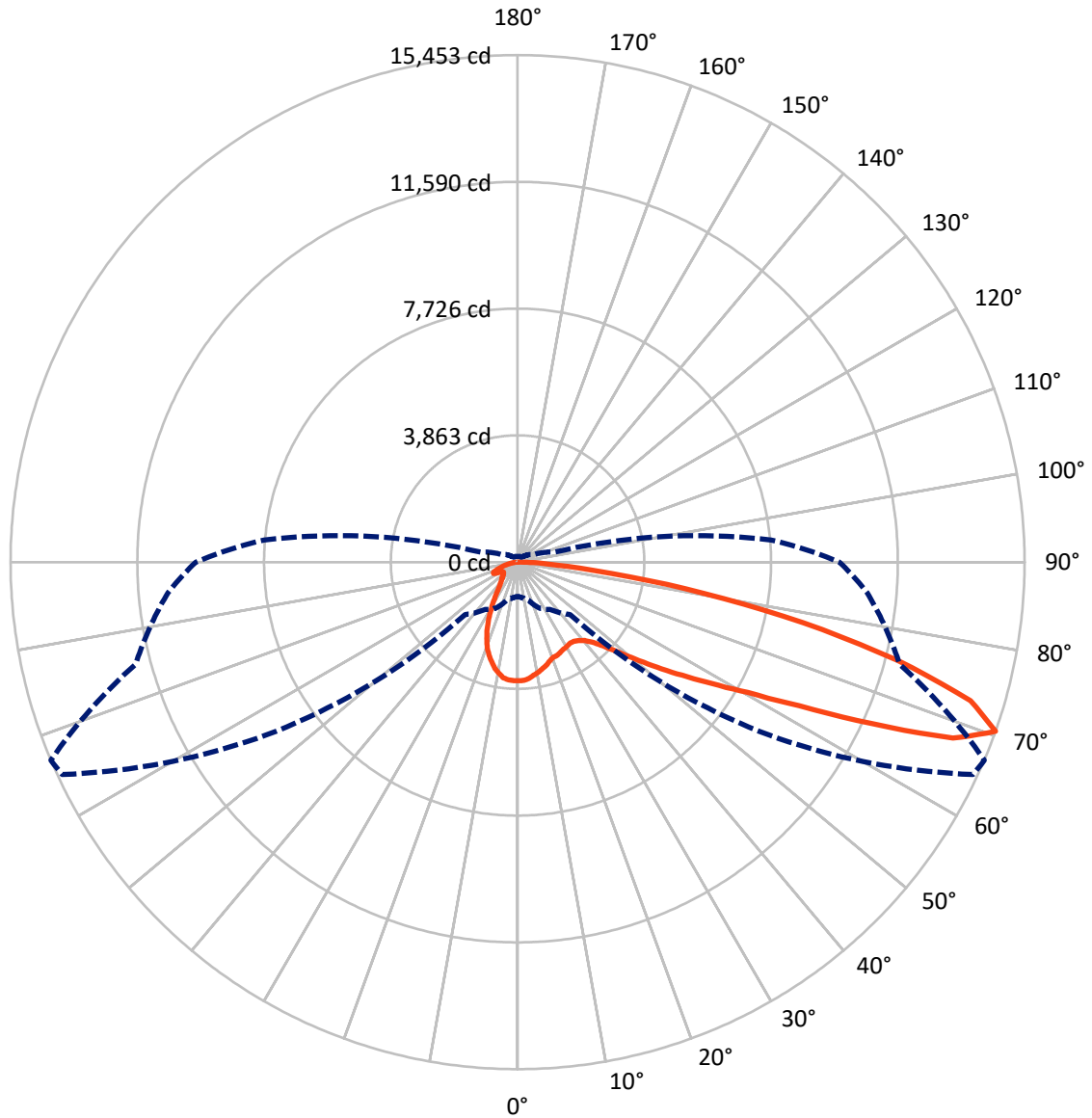
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P480104
CATALOG NUMBER: IFLD-S-SA2D-740-U-SL2

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	3037.0	0.0	3037.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12556.5	0.0	12556.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	15593.5	0.0	15593.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	2.0
10°-20°	754.3	4.8
20°-30°	1018.7	6.5
30°-40°	1363.1	8.7
40°-50°	2004.4	12.9
50°-60°	3124.3	20.0
60°-70°	3848.6	24.7
70°-80°	2719.4	17.4
80°-90°	445.7	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°	15593.5	100.0
0°-180°	15593.5	100.0

Coefficient of Utilization



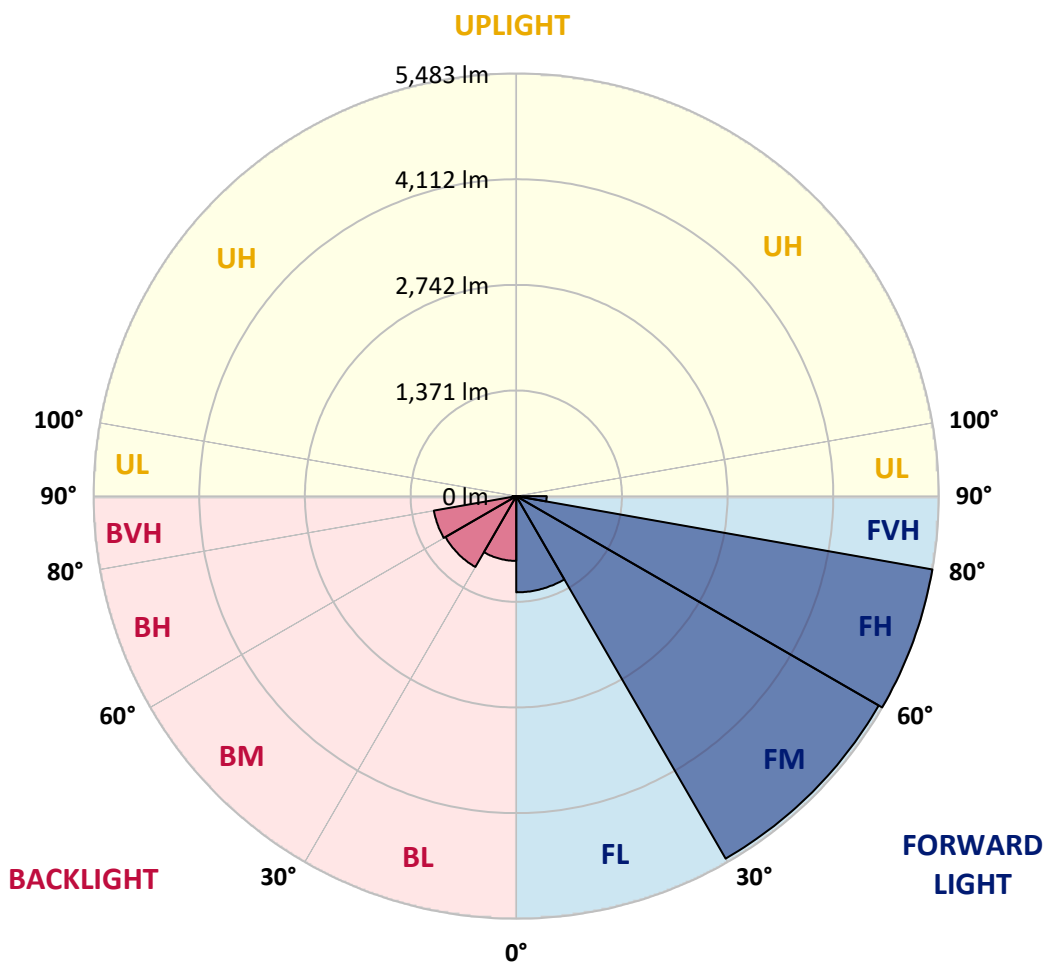
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.1	8.0			
FM (30°-60°)	5430.9	34.8			
FH (60°-80°)	5483.2	35.2			G3/7500
FVH (80°-90°)	394.3	2.5			G3/500
BL (0°-30°)	839.8	5.4	B2/1000		
BM (30°-60°)	1060.9	6.8	B2/2500		
BH (60°-80°)	1084.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	51.4	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





REPORT NUMBER: P480104

CATALOG NUMBER: IFLD-S-SA2D-740-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8
2.5°	3361.3	3399.2	3413.0	3433.8	3487.3	3527.0	3551.2	3578.8	3611.6	3639.2	3656.5
5°	3126.5	3147.2	3180.0	3202.4	3269.8	3376.8	3449.3	3566.7	3563.2	3606.4	3672.0
7.5°	2898.6	2919.3	2934.8	2979.7	3076.4	3173.1	3306.0	3495.9	3482.1	3582.2	3684.1
10°	2757.0	2741.5	2746.7	2822.6	2898.6	3007.3	3174.8	3368.2	3418.2	3573.6	3718.6
12.5°	2624.1	2606.8	2648.3	2696.6	2789.8	2888.2	3088.5	3262.8	3338.8	3542.5	3734.1
15°	2541.2	2529.1	2580.9	2601.6	2712.1	2829.5	2971.1	3183.4	3266.3	3504.5	3710.0
17.5°	2494.6	2505.0	2524.0	2568.8	2639.6	2739.8	2895.1	3129.9	3166.2	3457.9	3704.8
20°	2503.2	2515.3	2517.1	2536.0	2584.4	2662.1	2820.9	3072.9	3097.1	3449.3	3718.6
22.5°	2572.3	2555.0	2561.9	2549.9	2563.7	2624.1	2763.9	2997.0	3090.2	3376.8	3689.3
25°	2675.9	2651.7	2648.3	2606.8	2580.9	2598.2	2753.6	2978.0	3038.4	3354.3	3687.5
27.5°	2858.9	2822.6	2822.6	2760.5	2655.2	2627.5	2724.2	2946.9	3000.4	3333.6	3647.8
30°	3035.0	3035.0	3036.7	2948.6	2831.3	2694.9	2736.3	2934.8	2969.4	3271.5	3594.3
32.5°	3249.0	3243.9	3235.2	3192.1	3010.8	2807.1	2795.0	2919.3	2936.6	3250.8	3578.8
35°	3457.9	3444.1	3511.4	3473.5	3288.7	3026.3	2855.4	2926.2	2964.2	3219.7	3530.4
37.5°	3615.0	3623.7	3763.5	3787.7	3628.8	3274.9	3026.3	2995.3	3031.5	3264.6	3530.4
40°	3818.7	3853.3	3984.5	4065.6	3968.9	3602.9	3297.4	3110.9	3136.8	3364.7	3606.4
42.5°	4086.3	4115.7	4283.1	4388.4	4360.8	4020.7	3565.0	3352.6	3331.9	3532.2	3720.3
45°	4440.2	4445.4	4614.6	4759.6	4816.6	4457.5	3989.7	3658.2	3640.9	3820.5	3929.2
47.5°	4861.5	4856.3	4961.6	5117.0	5270.6	4978.9	4478.2	4122.6	4060.4	4233.1	4276.2
50°	5268.9	5246.5	5270.6	5469.2	5764.4	5631.4	5072.1	4690.6	4628.4	4723.4	4797.6
52.5°	5493.3	5520.9	5455.3	5717.8	6289.2	6403.1	5859.3	5369.0	5315.5	5362.1	5491.6
55°	5336.2	5393.2	5350.0	5598.6	6518.8	7344.0	6877.9	6154.5	6085.5	6068.2	6280.5
57.5°	4668.1	4771.7	4780.3	5173.9	6439.4	8072.5	8310.8	7081.6	6978.0	6801.9	7021.2
60°	3584.0	3687.5	3766.9	4233.1	5759.2	8507.6	9971.5	8400.5	8058.7	7603.0	7734.2
62.5°	2511.9	2582.7	2662.1	2948.6	4440.2	8252.1	11407.9	10258.1	9628.0	8447.1	8611.2
65°	1830.0	1885.2	1966.3	2135.5	2727.7	6827.8	12074.3	12464.4	11867.1	9521.0	9500.2
67.5°	1377.6	1412.2	1519.2	1790.2	1890.4	4217.5	11383.7	14795.0	14311.6	10713.9	10215.0
70°	1042.7	1072.1	1172.2	1543.4	1766.1	2261.6	8980.6	15314.7	15452.8	12051.8	10694.9
72.5°	718.2	751.0	863.2	1286.1	1681.5	1793.7	5636.6	13912.8	14435.9	12602.5	10180.4
75°	440.2	462.7	528.3	975.4	1669.4	1754.0	3102.3	11401.0	11955.1	11644.4	8906.4
77.5°	310.7	309.0	321.1	571.4	1446.7	1764.4	1912.8	8353.9	8892.6	8581.8	6044.0
80°	226.2	227.9	240.0	341.8	982.3	1793.7	1507.1	5595.2	5755.7	4474.8	2384.1
82.5°	136.4	143.3	172.6	231.3	590.4	1619.3	1393.2	3109.2	2908.9	1436.3	656.0
85°	72.5	72.5	101.9	146.7	314.2	1208.5	1341.4	1479.5	1239.5	445.4	243.4
87.5°	17.3	17.3	29.3	58.7	126.0	578.3	915.0	588.7	471.3	150.2	100.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480104
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8	3609.8
2.5°	3649.6	3628.8	3654.7	3602.9	3561.5	3563.2	3499.4	3495.9	3487.3	3442.4	3457.9
5°	3691.0	3673.7	3644.4	3587.4	3495.9	3404.4	3349.2	3278.4	3249.0	3233.5	3240.4
7.5°	3730.7	3699.6	3615.0	3535.6	3394.1	3221.4	3121.3	3026.3	2905.5	2891.7	2867.5
10°	3741.1	3675.5	3566.7	3397.5	3209.3	3017.7	2789.8	2613.7	2520.5	2448.0	2420.4
12.5°	3725.5	3697.9	3489.0	3271.5	2986.6	2686.2	2420.4	2171.8	1999.1	1909.4	1885.2
15°	3723.8	3675.5	3402.7	3079.9	2715.6	2323.7	1945.6	1647.0	1465.7	1391.5	1391.5
17.5°	3725.5	3609.8	3300.8	2886.5	2396.2	1866.2	1450.2	1205.0	1104.9	1094.5	1103.2
20°	3691.0	3561.5	3193.8	2658.6	1995.7	1401.8	1053.1	953.0	953.0	966.8	971.9
22.5°	3659.9	3489.0	3024.6	2377.2	1588.3	1015.1	856.3	826.9	859.7	883.9	894.3
25°	3616.8	3428.6	2852.0	2085.5	1208.5	818.3	744.1	751.0	782.0	825.2	821.8
27.5°	3554.6	3323.3	2646.5	1747.1	899.4	706.1	687.1	690.5	723.4	742.3	738.9
30°	3483.8	3216.2	2456.6	1410.4	713.0	647.4	645.7	654.3	659.5	669.8	668.1
32.5°	3394.1	3074.7	2254.6	1096.2	642.2	614.6	607.7	602.5	607.7	606.0	600.8
35°	3330.2	2998.7	2049.2	835.6	602.5	585.2	580.1	571.4	564.5	554.2	552.4
37.5°	3312.9	2922.8	1833.4	681.9	571.4	562.8	545.5	530.0	521.4	516.2	512.7
40°	3302.6	2872.7	1622.8	599.1	545.5	536.9	516.2	495.5	486.8	481.7	483.4
42.5°	3338.8	2845.1	1408.7	557.6	523.1	507.6	485.1	460.9	459.2	455.8	460.9
45°	3466.6	2879.6	1210.2	528.3	500.6	474.8	445.4	433.3	431.6	428.1	431.6
47.5°	3756.6	2965.9	1041.0	509.3	476.5	454.0	423.0	405.7	404.0	402.2	402.2
50°	4157.1	3231.8	899.4	486.8	460.9	429.9	400.5	381.5	378.1	371.2	371.2
52.5°	4785.5	3678.9	814.8	474.8	433.3	407.4	376.3	355.6	347.0	340.1	340.1
55°	5493.3	4233.1	799.3	454.0	404.0	379.8	352.2	331.5	322.8	314.2	310.7
57.5°	6299.5	4966.8	909.8	440.2	383.3	352.2	321.1	302.1	295.2	286.6	283.1
60°	7050.5	5698.8	1253.3	419.5	364.3	326.3	295.2	276.2	267.6	259.0	259.0
62.5°	7918.9	6605.1	1835.1	419.5	347.0	298.7	267.6	253.8	248.6	240.0	238.2
65°	8946.1	7542.5	2259.8	445.4	341.8	274.5	241.7	227.9	222.7	217.5	215.8
67.5°	9728.1	8081.2	1943.9	514.5	364.3	253.8	215.8	207.2	203.7	198.5	195.1
70°	9811.0	7753.1	1172.2	555.9	386.7	233.1	193.4	184.7	184.7	179.5	176.1
72.5°	9066.9	6879.6	789.0	495.5	350.5	208.9	170.9	164.0	160.6	157.1	155.4
75°	7587.4	5835.1	623.2	395.3	269.3	172.6	148.5	141.6	136.4	134.7	131.2
77.5°	5096.3	3792.8	460.9	309.0	198.5	139.8	124.3	117.4	112.2	110.5	105.3
80°	1957.7	1445.0	296.9	224.4	139.8	110.5	98.4	91.5	88.0	82.9	79.4
82.5°	576.6	467.8	165.7	138.1	89.8	76.0	70.8	65.6	60.4	55.2	53.5
85°	238.2	214.1	101.9	72.5	55.2	44.9	41.4	36.3	31.1	27.6	24.2
87.5°	110.5	91.5	46.6	27.6	19.0	10.4	5.2	1.7	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)