

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: P481018

Luminaire Tested: **IFLD-S-SA6A-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481018
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

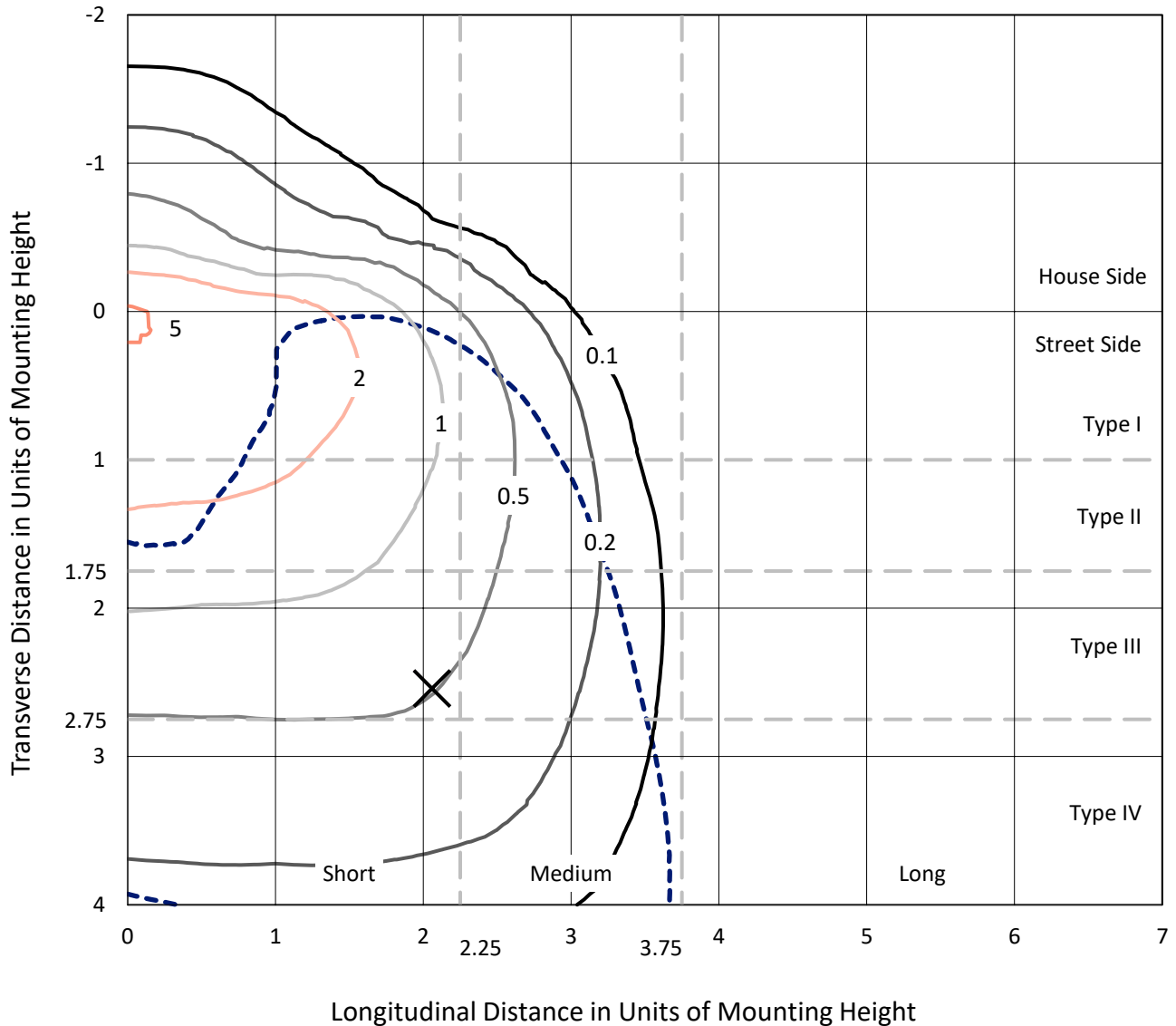
Lumens per Lamp: N/A
Luminaire Lumens: 19191.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

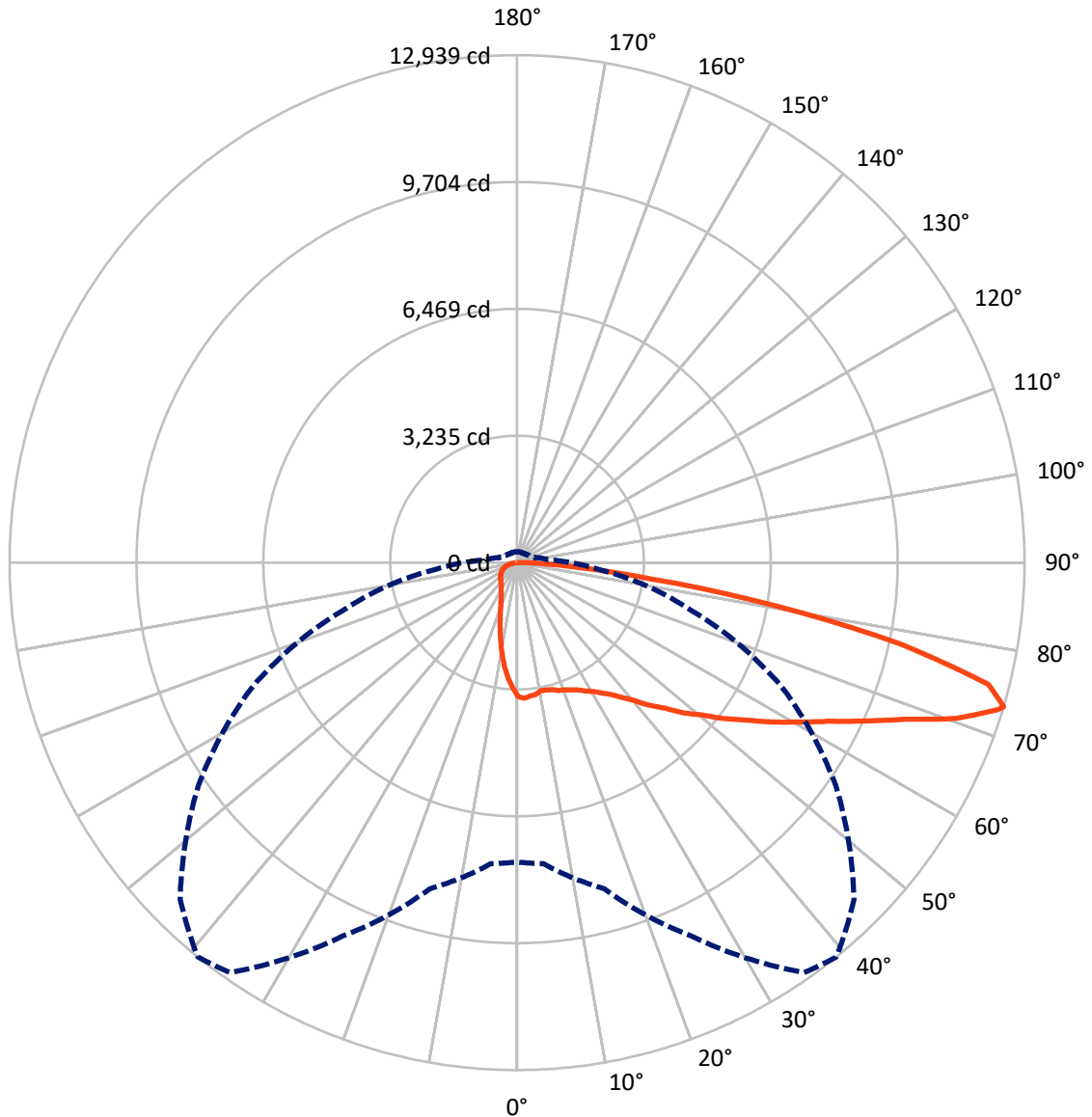
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2697.7	0.0	2697.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16493.4	0.0	16493.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	19191.1	0.0	19191.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	1.5
10°-20°	753.9	3.9
20°-30°	1152.0	6.0
30°-40°	1679.6	8.8
40°-50°	2538.1	13.2
50°-60°	3675.3	19.2
60°-70°	4669.7	24.3
70°-80°	3785.5	19.7
80°-90°	640.5	3.3
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°	19191.1	100.0
0°-180°	19191.1	100.0

Coefficient of Utilization



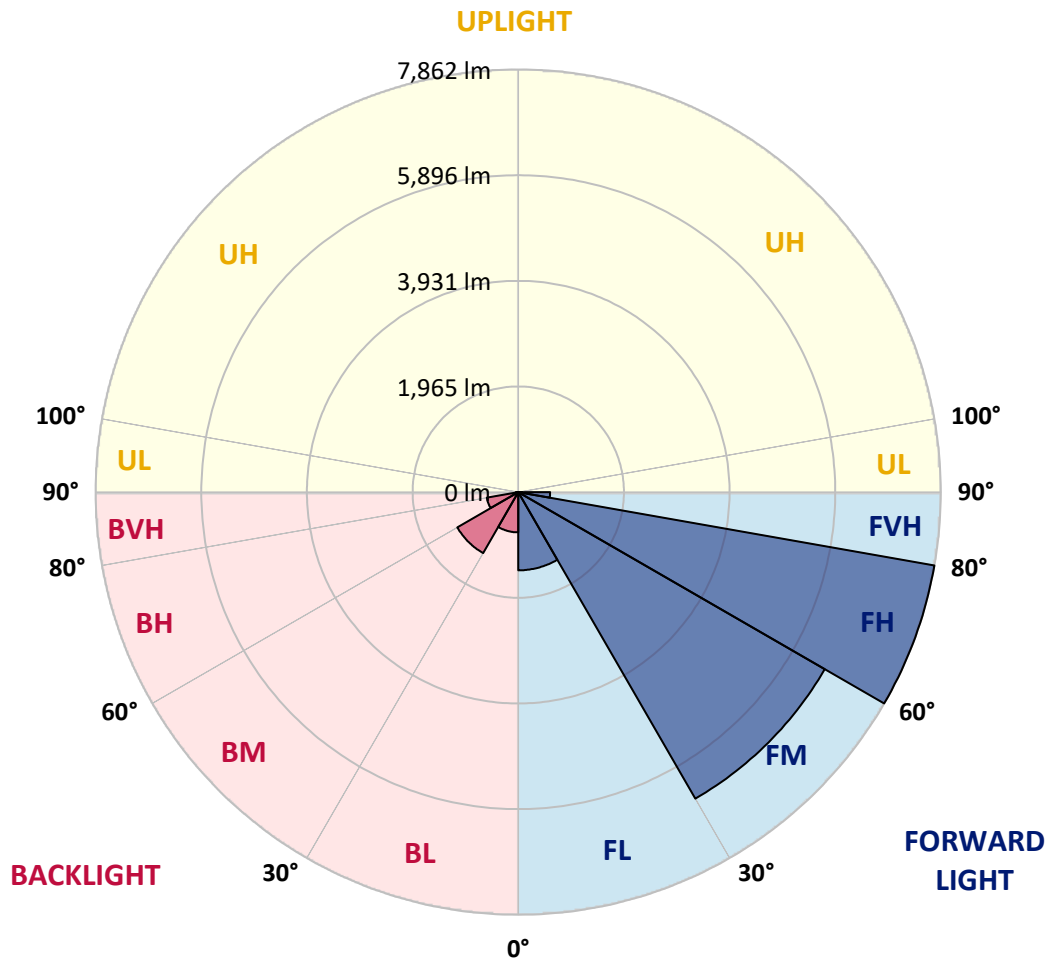
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.3	7.6			
FM (30°-60°)	6583.8	34.3			
FH (60°-80°)	7861.8	41.0			G4/12000
FVH (80°-90°)	593.5	3.1			G4/750
BL (0°-30°)	748.1	3.9	B2/1000		
BM (30°-60°)	1309.3	6.8	B2/2500		
BH (60°-80°)	593.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	47.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1
2.5°	3497.7	3461.2	3467.7	3454.8	3467.7	3463.4	3456.9	3424.7	3456.9	3424.7	3416.1
5°	3450.5	3450.5	3472.0	3439.8	3444.1	3422.6	3444.1	3420.4	3399.0	3345.3	3330.3
7.5°	3435.5	3433.3	3435.5	3390.4	3411.8	3399.0	3377.5	3351.7	3308.8	3274.4	3225.0
10°	3332.4	3353.9	3330.3	3343.1	3360.3	3321.7	3319.5	3313.1	3293.7	3248.7	3218.6
12.5°	3276.6	3313.1	3326.0	3315.2	3330.3	3334.5	3321.7	3313.1	3289.5	3259.4	3173.5
15°	3300.2	3257.2	3293.7	3364.6	3349.6	3360.3	3362.5	3353.9	3343.1	3287.3	3231.5
17.5°	3306.6	3280.9	3358.2	3373.2	3392.5	3431.2	3405.4	3403.3	3362.5	3323.8	3242.2
20°	3321.7	3310.9	3373.2	3452.6	3454.8	3461.2	3474.1	3441.9	3420.4	3353.9	3229.3
22.5°	3377.5	3414.0	3472.0	3506.3	3525.6	3529.9	3529.9	3465.5	3441.9	3388.2	3289.5
25°	3545.0	3506.3	3587.9	3628.7	3600.8	3594.4	3579.3	3521.3	3495.6	3448.3	3317.4
27.5°	3667.4	3665.2	3712.4	3768.3	3693.1	3708.2	3654.5	3637.3	3579.3	3553.6	3366.8
30°	3834.8	3882.1	3879.9	3897.1	3798.3	3815.5	3746.8	3714.6	3682.4	3697.4	3512.8
32.5°	4049.6	4032.4	4060.3	4047.4	3948.6	3963.7	3882.1	3832.7	3843.4	3888.5	3712.4
35°	4187.0	4169.8	4180.5	4180.5	4150.5	4133.3	4098.9	4034.5	4086.1	4169.8	3935.8
37.5°	4335.1	4356.6	4418.9	4406.0	4367.3	4367.3	4363.0	4317.9	4384.5	4590.6	4292.2
40°	4466.1	4524.1	4562.7	4588.5	4633.6	4633.6	4670.1	4644.3	4764.6	5095.2	4728.1
42.5°	4603.5	4605.7	4816.1	4835.4	4936.3	4979.3	5007.2	5028.7	5254.1	5623.4	5194.0
45°	4779.6	4790.3	4975.0	5123.1	5279.9	5294.9	5400.1	5471.0	5748.0	6201.0	5700.7
47.5°	5011.5	4998.6	5196.1	5432.3	5627.7	5730.8	5857.5	5934.8	6276.2	6828.0	6254.7
50°	5316.4	5277.7	5391.5	5763.0	5992.7	6106.5	6332.0	6460.8	6860.2	7427.0	6634.7
52.5°	5687.8	5623.4	5713.6	6119.4	6377.1	6606.8	6821.5	6965.4	7381.9	7890.8	6916.0
55°	6080.8	5947.6	5973.4	6497.3	6868.8	7085.6	7379.8	7530.1	7955.2	8307.4	7197.3
57.5°	6469.4	6385.7	6334.1	6860.2	7455.0	7663.2	7933.8	8129.2	8489.9	8676.7	7435.6
60°	6795.8	6774.3	6690.6	7422.7	8075.5	8253.7	8537.1	8657.4	8930.1	9018.1	7439.9
62.5°	7064.2	6991.2	7124.3	7875.8	8706.7	8908.6	9219.9	9230.7	9423.9	9230.7	7220.9
65°	7274.6	7278.9	7491.5	8423.3	9436.8	9735.2	9986.5	9958.5	9834.0	9104.0	6703.4
67.5°	7465.7	7547.3	7858.6	9024.5	10375.1	10656.4	10935.5	10566.2	9945.7	8511.4	5692.1
70°	7616.0	7697.6	8354.6	9756.7	11480.9	11893.1	11955.4	10806.7	9432.5	7210.2	4294.3
72.5°	7598.8	7747.0	8635.9	10340.7	12462.1	12818.6	12316.1	10130.3	7858.6	5026.5	2505.7
73°	7635.3	7708.3	8612.3	10503.9	12760.6	12938.8	12148.7	9917.8	7412.0	4509.0	2119.3
75°	6931.0	7178.0	8185.0	10237.7	12440.7	12408.5	11186.7	8264.4	5269.1	2368.3	1026.3
77.5°	5127.4	5284.2	6450.1	8419.0	10211.9	10005.8	8438.4	5282.0	2501.4	878.2	554.0
80°	2505.7	2628.1	3418.3	4861.2	6677.7	6694.9	5236.9	2748.4	1071.4	496.0	377.9
82.5°	1251.8	1324.8	1642.6	2136.4	3285.2	3441.9	2656.0	1563.1	663.5	281.3	214.7
85°	818.1	869.6	1011.3	1045.7	1393.5	1470.8	1236.8	1219.6	431.6	152.4	173.9
87.5°	543.2	551.8	620.5	528.2	558.3	536.8	596.9	768.7	126.7	64.4	47.2
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°	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1	3416.1
2.5°	3405.4	3375.3	3343.1	3298.0	3265.8	3216.5	3171.4	3152.0	3147.7	3149.9	3128.4
5°	3317.4	3274.4	3210.0	3117.7	3064.0	2982.4	2913.7	2877.2	2838.6	2845.0	2827.8
7.5°	3195.0	3147.7	3049.0	2941.6	2808.5	2692.5	2628.1	2537.9	2486.4	2447.8	2469.2
10°	3156.3	3074.7	2926.6	2778.4	2572.3	2419.9	2271.7	2168.6	2097.8	2029.1	2059.1
12.5°	3137.0	3055.4	2849.3	2630.3	2364.0	2132.1	1923.9	1797.2	1696.3	1636.1	1659.8
15°	3119.8	3018.9	2776.3	2467.1	2168.6	1863.7	1629.7	1462.2	1365.6	1307.6	1314.1
17.5°	3143.4	2999.6	2668.9	2308.2	1953.9	1627.6	1367.7	1193.8	1095.1	1058.6	1050.0
20°	3119.8	2978.1	2563.7	2149.3	1739.2	1402.1	1153.0	1009.2	940.5	910.4	904.0
22.5°	3128.4	2926.6	2454.2	1973.2	1539.5	1213.1	1009.2	899.7	846.0	831.0	835.2
25°	3169.2	2896.5	2344.7	1780.0	1342.0	1073.6	916.8	833.1	794.5	779.4	783.7
27.5°	3199.3	2922.3	2245.9	1597.5	1174.5	949.0	839.5	783.7	757.9	747.2	745.1
30°	3274.4	2937.3	2149.3	1434.3	1037.1	867.5	785.9	740.8	723.6	717.2	715.0
32.5°	3386.1	2965.2	2037.7	1284.0	936.2	790.2	742.9	704.3	700.0	693.5	695.7
35°	3568.6	3061.9	1913.1	1155.2	839.5	738.6	697.8	672.1	672.1	672.1	678.5
37.5°	3830.5	3197.1	1801.5	1032.8	777.3	693.5	659.2	650.6	646.3	652.7	657.0
40°	4167.6	3360.3	1711.3	936.2	723.6	663.5	633.4	629.1	627.0	624.8	629.1
42.5°	4537.0	3568.6	1634.0	861.0	684.9	631.3	609.8	605.5	596.9	601.2	607.6
45°	4904.1	3826.2	1565.3	800.9	659.2	614.1	584.0	581.9	577.6	575.4	586.2
47.5°	5312.1	4079.6	1543.8	764.4	639.9	588.3	566.9	564.7	551.8	549.7	558.3
50°	5629.9	4266.4	1567.4	747.2	611.9	569.0	554.0	543.2	532.5	521.8	521.8
52.5°	5848.9	4395.2	1584.6	734.3	596.9	543.2	523.9	519.6	508.9	498.1	493.8
55°	6046.4	4472.5	1588.9	736.5	581.9	513.2	500.3	498.1	491.7	474.5	470.2
57.5°	6113.0	4440.3	1503.0	717.2	573.3	493.8	476.7	481.0	472.4	457.3	455.2
60°	6106.5	4217.0	1307.6	691.4	554.0	472.4	450.9	463.8	463.8	446.6	444.5
62.5°	5735.1	3701.7	1069.3	642.0	532.5	450.9	427.3	446.6	453.1	442.3	440.2
65°	4964.2	3014.6	893.2	592.6	500.3	427.3	403.7	425.1	435.9	431.6	429.4
67.5°	4107.5	2306.1	742.9	528.2	459.5	395.1	375.8	390.8	397.2	399.4	401.5
70°	2903.0	1535.2	620.5	457.3	403.7	360.7	339.3	341.4	339.3	345.7	345.7
72.5°	1578.2	884.6	504.6	388.6	347.8	313.5	298.5	287.7	287.7	285.6	285.6
73°	1350.6	794.5	481.0	377.9	332.8	304.9	287.7	279.1	279.1	277.0	274.8
75°	757.9	581.9	412.3	324.2	287.7	266.2	253.4	240.5	238.3	238.3	238.3
77.5°	498.1	453.1	328.5	259.8	231.9	212.6	208.3	195.4	195.4	195.4	193.2
80°	373.6	356.4	253.4	197.5	178.2	163.2	158.9	150.3	148.2	139.6	141.7
82.5°	249.1	281.3	184.7	139.6	120.2	111.7	111.7	109.5	103.1	92.3	92.3
85°	197.5	229.7	133.1	85.9	70.9	60.1	62.3	60.1	58.0	47.2	45.1
87.5°	36.5	92.3	38.6	23.6	17.2	10.7	10.7	6.4	4.3	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)