

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: P480399

Luminaire Tested: **IFLD-M-SA4A-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480399  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

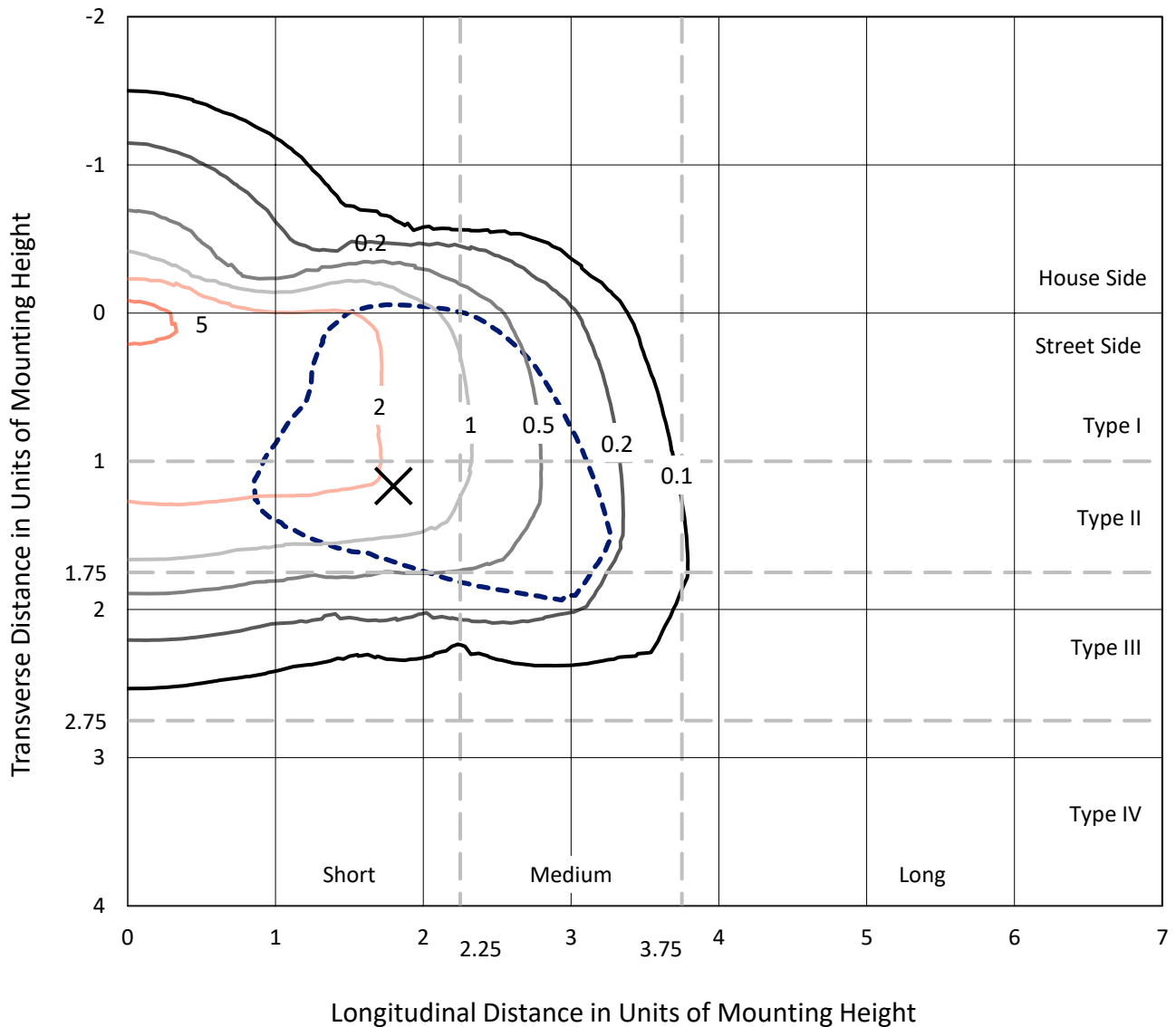
Lumens per Lamp: N/A  
Luminaire Lumens: 15239.2 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

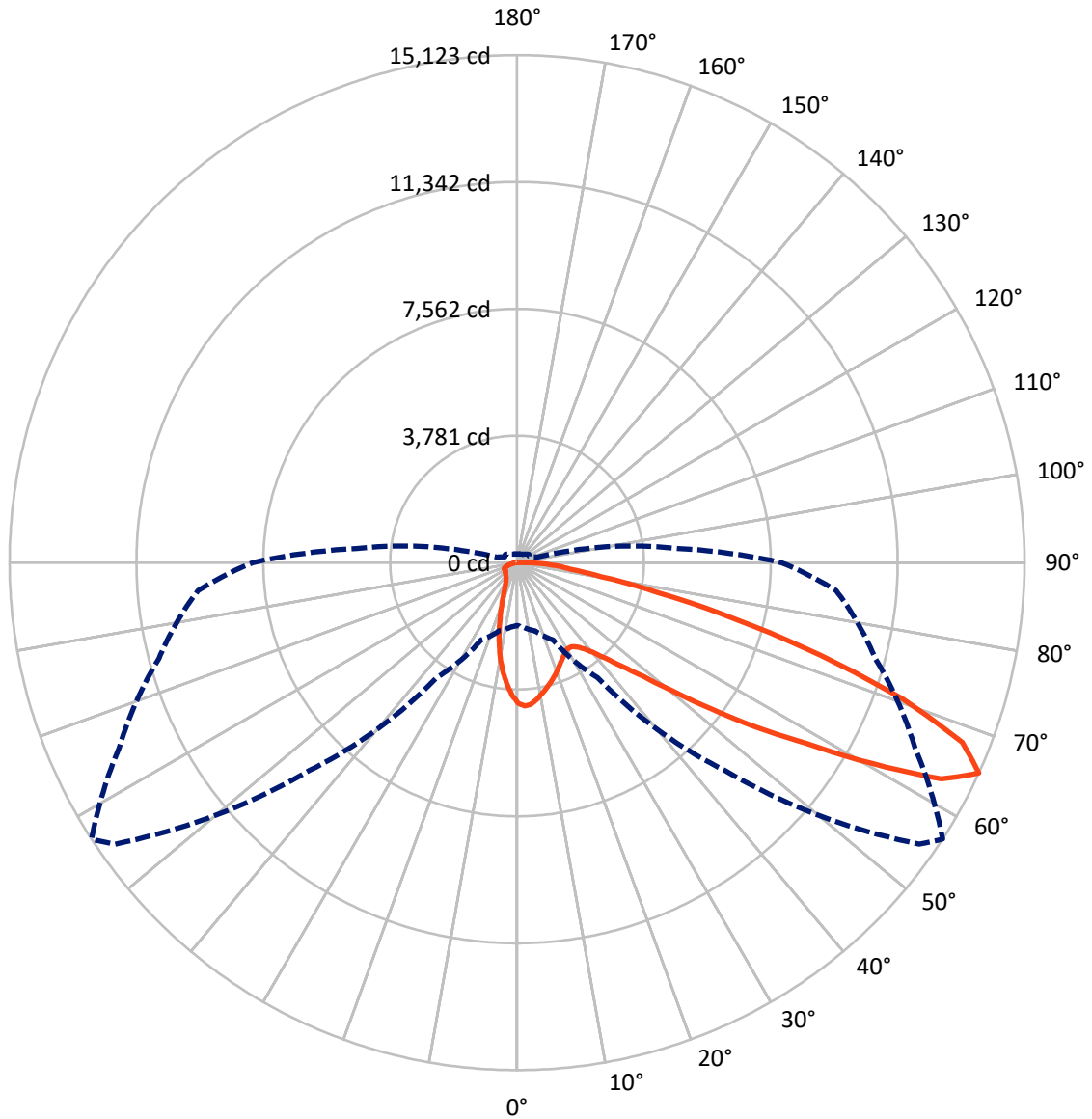
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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
<b>House Side</b>	Lumens	2337.1	0.0	2337.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	12902.2	0.0	12902.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	15239.2	0.0	15239.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.9	2.3
10°-20°	755.3	5.0
20°-30°	976.5	6.4
30°-40°	1314.0	8.6
40°-50°	2095.3	13.7
50°-60°	3700.7	24.3
60°-70°	4071.3	26.7
70°-80°	1703.1	11.2
80°-90°	272.2	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°	15239.2	100.0
0°-180°	15239.2	100.0

**Coefficient of Utilization**

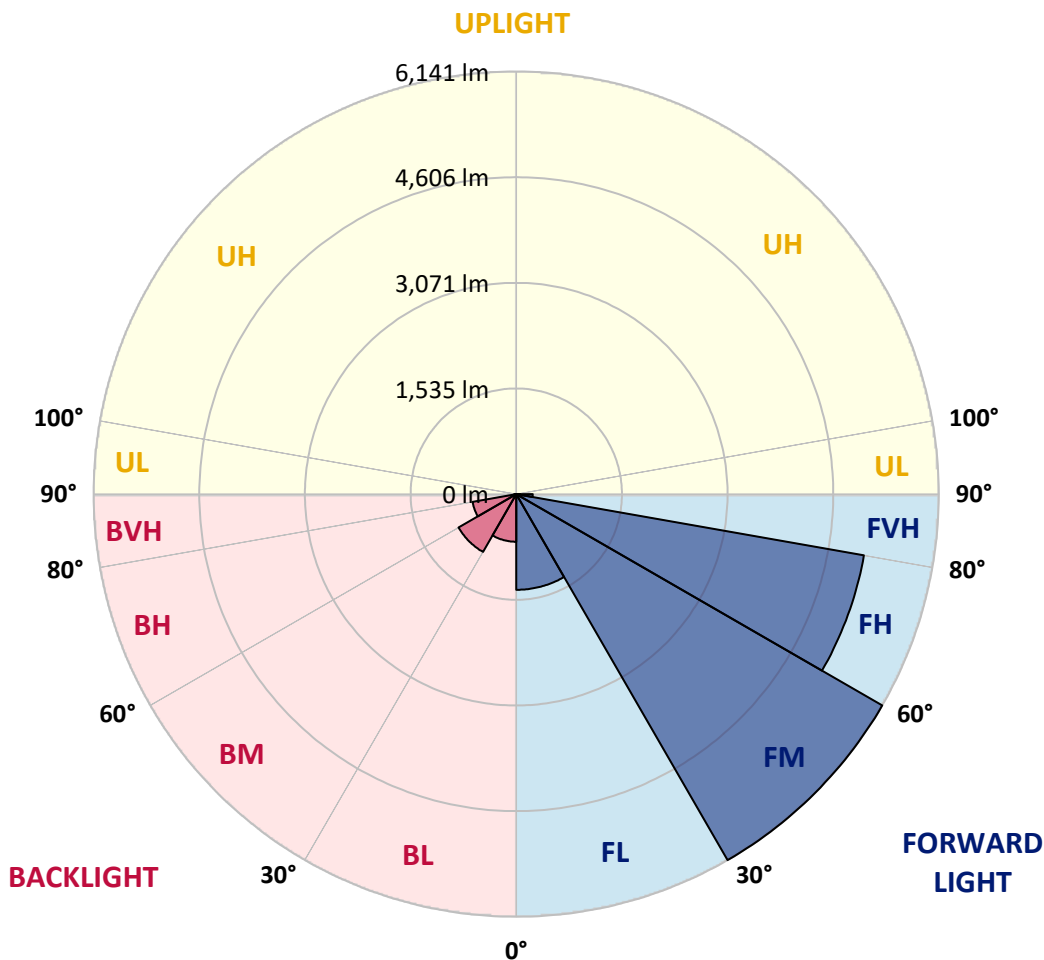


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.5	9.1			
FM (30°-60°)	6141.4	40.3			
FH (60°-80°)	5130.0	33.7			G3/7500
FVH (80°-90°)	240.3	1.6			G3/500
BL (0°-30°)	692.1	4.5	B2/1000		
BM (30°-60°)	968.6	6.4	B1/1000		
BH (60°-80°)	644.4	4.2	B2/1000		G2/1000
BVH (80°-90°)	31.9	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°	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6
2.5°	4303.7	4310.6	4310.6	4324.3	4278.0	4300.3	4296.9	4276.3	4283.2	4247.2	4211.2
5°	4182.0	4176.9	4204.3	4207.7	4243.7	4254.0	4262.6	4248.9	4252.3	4173.4	4139.1
7.5°	3869.9	3868.2	3914.5	3954.0	4029.4	4099.7	4146.0	4132.3	4151.1	4101.4	4020.8
10°	3499.6	3539.0	3587.0	3626.5	3765.3	3854.5	3974.5	3986.5	4058.6	4046.5	3900.8
12.5°	3221.8	3239.0	3275.0	3388.1	3515.0	3662.5	3833.9	3849.4	3919.7	3954.0	3827.1
15°	2993.8	3009.2	3055.5	3139.5	3281.8	3456.7	3674.5	3713.9	3854.5	3866.5	3731.1
17.5°	2827.4	2839.4	2870.3	2954.3	3070.9	3295.5	3501.3	3571.6	3756.8	3815.1	3631.6
20°	2762.3	2736.6	2753.7	2806.9	2923.5	3096.6	3362.4	3424.1	3660.8	3775.6	3537.3
22.5°	2733.1	2710.8	2721.1	2717.7	2810.3	2933.7	3213.2	3278.4	3569.9	3729.3	3453.3
25°	2755.4	2755.4	2745.1	2736.6	2746.9	2827.4	3052.1	3153.2	3448.1	3689.9	3367.6
27.5°	2875.4	2829.2	2834.3	2798.3	2788.0	2788.0	2980.0	3040.1	3408.7	3667.6	3297.3
30°	2952.6	2974.9	2976.6	2923.5	2870.3	2774.3	2913.2	2971.5	3376.1	3695.0	3256.1
32.5°	3149.8	3139.5	3110.4	3100.1	3021.2	2913.2	2945.7	2985.2	3357.3	3756.8	3268.1
35°	3347.0	3341.8	3343.5	3338.4	3256.1	3096.6	3033.2	3086.4	3391.6	3864.8	3309.3
37.5°	3551.0	3564.7	3623.0	3623.0	3535.6	3362.4	3278.4	3263.0	3516.7	4041.4	3407.0
40°	3755.1	3789.4	3863.1	3979.7	3856.2	3695.0	3559.6	3535.6	3667.6	4278.0	3641.9
42.5°	3950.5	4007.1	4152.9	4326.0	4284.9	4123.7	3943.7	3916.2	3978.0	4629.5	3969.4
45°	4200.9	4248.9	4478.6	4744.4	4801.0	4658.7	4447.8	4425.5	4422.1	5143.9	4420.3
47.5°	4581.5	4633.0	4862.7	5130.2	5305.1	5327.4	5090.8	5066.8	4984.5	5838.3	5080.5
50°	5058.2	5142.2	5336.0	5648.0	5901.8	6140.1	6073.3	6003.0	5841.8	6645.9	5917.2
52.5°	5406.3	5509.1	5771.5	6171.0	6618.5	6997.4	7237.5	7237.5	6867.1	7532.4	6923.7
55°	5498.8	5560.6	5891.5	6469.3	7235.8	8194.3	8696.6	8658.9	8088.0	8465.2	8094.8
57.5°	5130.2	5210.8	5612.0	6217.3	7559.8	9313.9	10145.5	10154.1	9421.9	9548.8	9250.5
60°	4115.1	4140.9	4614.1	5423.4	7247.8	10215.8	12124.2	12156.8	10939.4	10514.2	9838.6
62.5°	2844.6	2926.9	3283.5	3993.4	6004.7	10114.7	14032.6	14193.8	12155.1	11023.4	9931.2
65°	1872.4	1922.1	2112.4	2544.5	4180.3	8766.9	14625.9	15123.1	13084.4	11052.6	9543.7
67.5°	1358.0	1366.6	1423.2	1646.1	2511.9	6304.7	13612.5	14313.8	13432.5	10809.1	8634.9
70°	1097.4	1104.2	1124.8	1267.1	1622.0	3945.4	11102.3	12201.4	12388.3	9655.1	6954.6
72.5°	891.6	900.2	925.9	1059.6	1337.4	2194.7	8118.8	9457.9	10076.9	7143.2	4622.7
75°	701.3	708.1	769.9	901.9	1256.8	1507.2	5385.7	6697.4	6781.4	4175.1	2163.9
77.5°	480.1	492.1	567.5	764.7	1183.1	1318.6	3357.3	4290.0	3849.4	1634.1	744.2
80°	305.2	322.4	366.9	579.5	1045.9	1258.5	2088.4	2561.7	1685.5	559.0	358.4
82.5°	180.0	197.2	241.8	375.5	821.3	1167.7	1471.2	1603.2	790.4	286.3	216.0
85°	99.4	111.5	145.7	226.3	481.8	1037.4	1178.0	1150.5	452.7	152.6	135.5
87.5°	32.6	37.7	53.2	90.9	198.9	488.7	706.4	663.6	234.9	70.3	53.2
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°	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6	4190.6
2.5°	4187.1	4182.0	4104.8	4046.5	3947.1	3864.8	3832.2	3787.6	3785.9	3753.3	3744.8
5°	4086.0	4032.8	3914.5	3801.4	3624.7	3506.4	3398.4	3323.0	3292.1	3225.2	3209.8
7.5°	3955.7	3885.4	3703.6	3491.0	3283.5	3098.4	2930.3	2762.3	2668.0	2635.4	2599.4
10°	3820.2	3696.8	3427.6	3189.2	2899.5	2614.8	2350.8	2114.1	1985.6	1894.7	1855.2
12.5°	3712.2	3547.6	3204.7	2848.0	2465.7	2085.0	1778.1	1529.5	1383.7	1315.1	1284.3
15°	3590.5	3372.7	2961.2	2510.2	2033.6	1601.5	1301.4	1105.9	1047.6	1015.1	1009.9
17.5°	3461.9	3209.8	2697.1	2177.6	1611.8	1205.4	1011.6	932.8	907.0	893.3	886.5
20°	3341.8	3064.1	2426.2	1807.2	1262.0	967.1	876.2	835.0	833.3	840.2	838.5
22.5°	3172.1	2873.7	2158.7	1464.3	1008.2	841.9	783.6	773.3	783.6	792.2	795.6
25°	3076.1	2717.7	1860.4	1162.5	833.3	747.6	728.7	725.3	740.7	751.0	749.3
27.5°	2976.6	2556.5	1582.6	931.0	730.4	680.7	677.3	680.7	696.1	711.6	709.9
30°	2899.5	2427.9	1322.0	778.4	651.6	632.7	629.3	632.7	641.3	643.0	643.0
32.5°	2836.0	2275.3	1100.8	675.6	603.6	588.1	591.6	589.8	591.6	593.3	595.0
35°	2798.3	2184.5	919.0	612.1	564.1	552.1	550.4	545.3	547.0	548.7	547.0
37.5°	2878.9	2139.9	775.0	567.5	536.7	526.4	523.0	519.5	514.4	514.4	514.4
40°	3000.6	2115.9	687.6	538.4	516.1	504.1	493.8	490.4	490.4	492.1	493.8
42.5°	3242.4	2155.3	627.6	516.1	490.4	476.7	466.4	468.1	473.2	478.4	475.0
45°	3592.2	2275.3	600.1	499.0	475.0	456.1	449.2	447.5	452.7	461.2	468.1
47.5°	4050.0	2462.2	589.8	483.5	464.7	438.9	430.4	435.5	442.4	454.4	449.2
50°	4799.3	2882.3	598.4	469.8	449.2	430.4	420.1	414.9	420.1	428.7	432.1
52.5°	5778.3	3645.3	631.0	463.0	438.9	423.5	406.4	397.8	402.9	409.8	409.8
55°	6949.4	4687.8	721.9	454.4	421.8	413.2	394.4	377.2	380.6	380.6	378.9
57.5°	7981.6	5474.8	829.9	442.4	411.5	399.5	375.5	354.9	351.5	353.2	354.9
60°	8444.6	5684.0	881.3	438.9	411.5	382.4	349.8	329.2	324.1	320.6	320.6
62.5°	8364.0	5322.2	776.7	423.5	421.8	368.6	325.8	303.5	296.6	289.8	291.5
65°	7877.1	4806.1	612.1	402.9	423.5	360.1	301.8	279.5	267.5	258.9	257.2
67.5°	6987.2	4103.1	485.2	387.5	406.4	344.6	281.2	255.5	245.2	236.6	233.2
70°	5466.3	3216.7	421.8	366.9	365.2	306.9	257.2	234.9	219.5	209.2	209.2
72.5°	3544.2	2033.6	361.8	325.8	315.5	257.2	222.9	209.2	197.2	188.6	188.6
75°	1604.9	944.8	291.5	272.6	257.2	205.8	188.6	181.8	171.5	162.9	162.9
77.5°	576.1	402.9	217.8	214.3	192.0	159.5	152.6	147.5	140.6	132.0	132.0
80°	322.4	255.5	162.9	156.0	133.7	118.3	109.7	109.7	106.3	101.2	99.4
82.5°	204.0	166.3	120.0	104.6	87.4	78.9	75.4	73.7	72.0	65.2	63.4
85°	128.6	113.2	78.9	61.7	51.4	39.4	37.7	36.0	32.6	29.1	29.1
87.5°	58.3	65.2	30.9	18.9	13.7	8.6	5.1	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)