

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: P480378

Luminaire Tested: **IFLD-S-SA2E-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480378
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

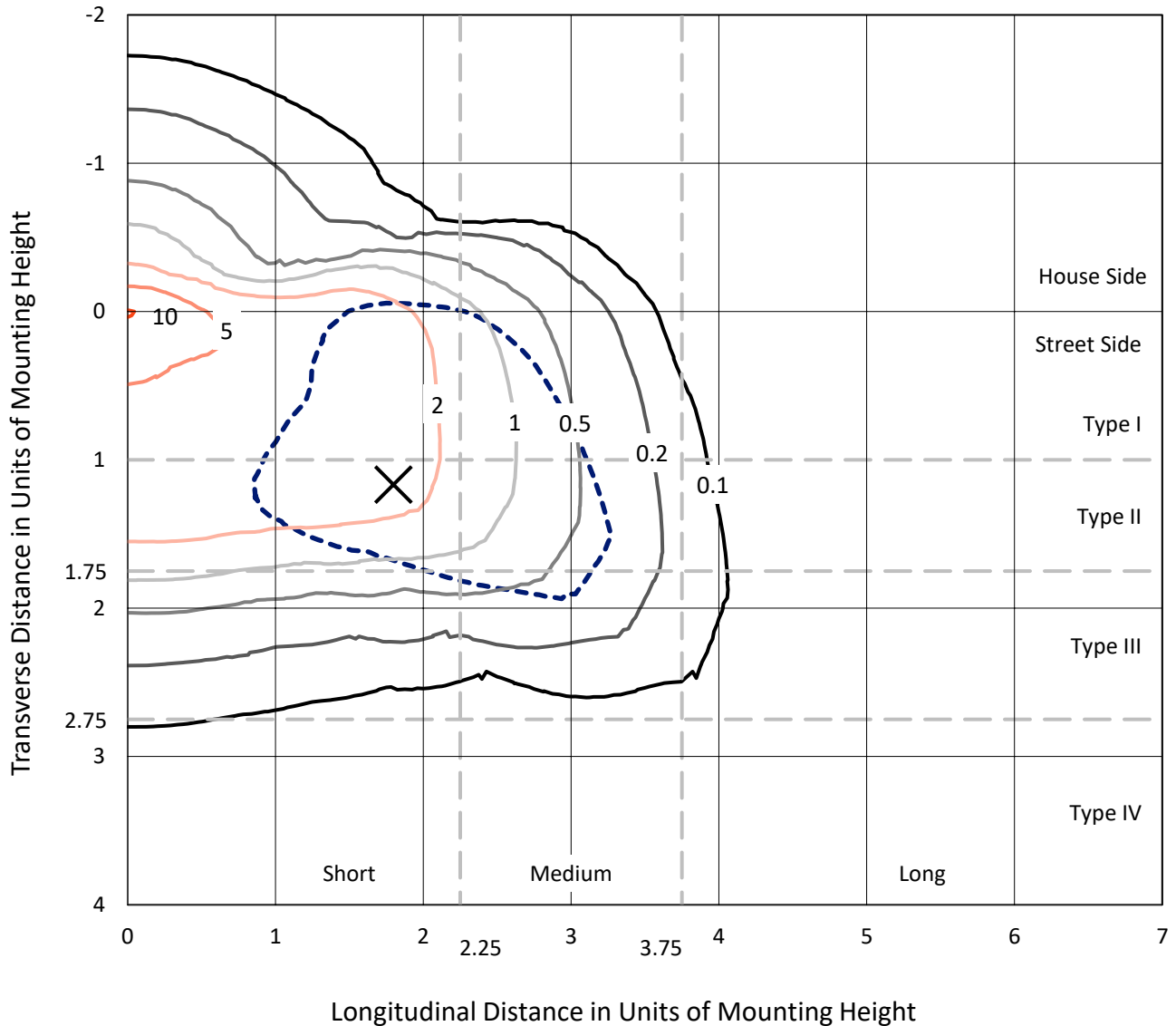
Lumens per Lamp: N/A
Luminaire Lumens: 14935.6 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

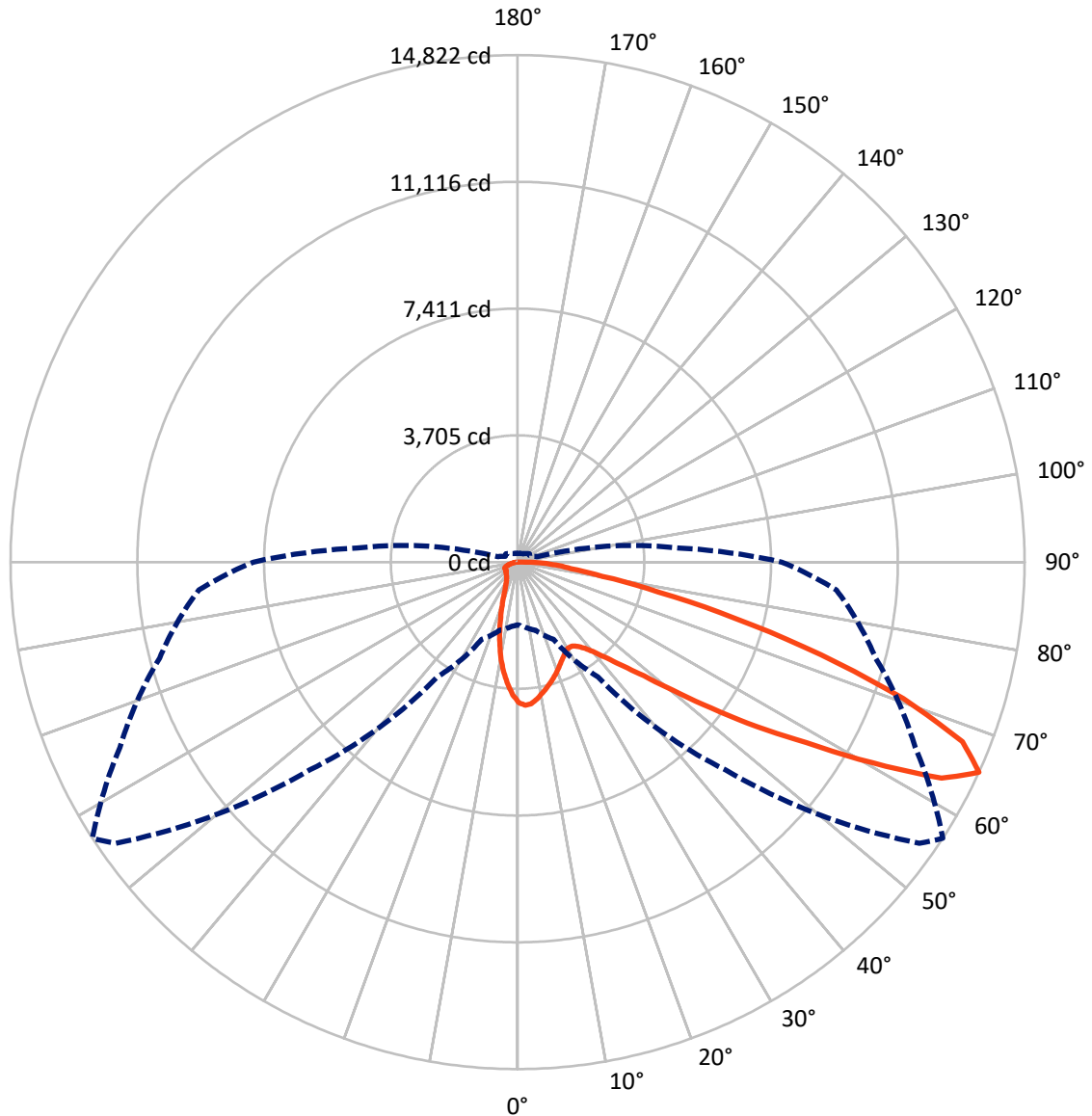
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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	2290.5	0.0	2290.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	12645.0	0.0	12645.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	14935.6	0.0	14935.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.9	2.3
10°-20°	740.2	5.0
20°-30°	957.0	6.4
30°-40°	1287.8	8.6
40°-50°	2053.5	13.7
50°-60°	3627.0	24.3
60°-70°	3990.2	26.7
70°-80°	1669.2	11.2
80°-90°	266.8	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°	14935.6	100.0
0°-180°	14935.6	100.0

Coefficient of Utilization



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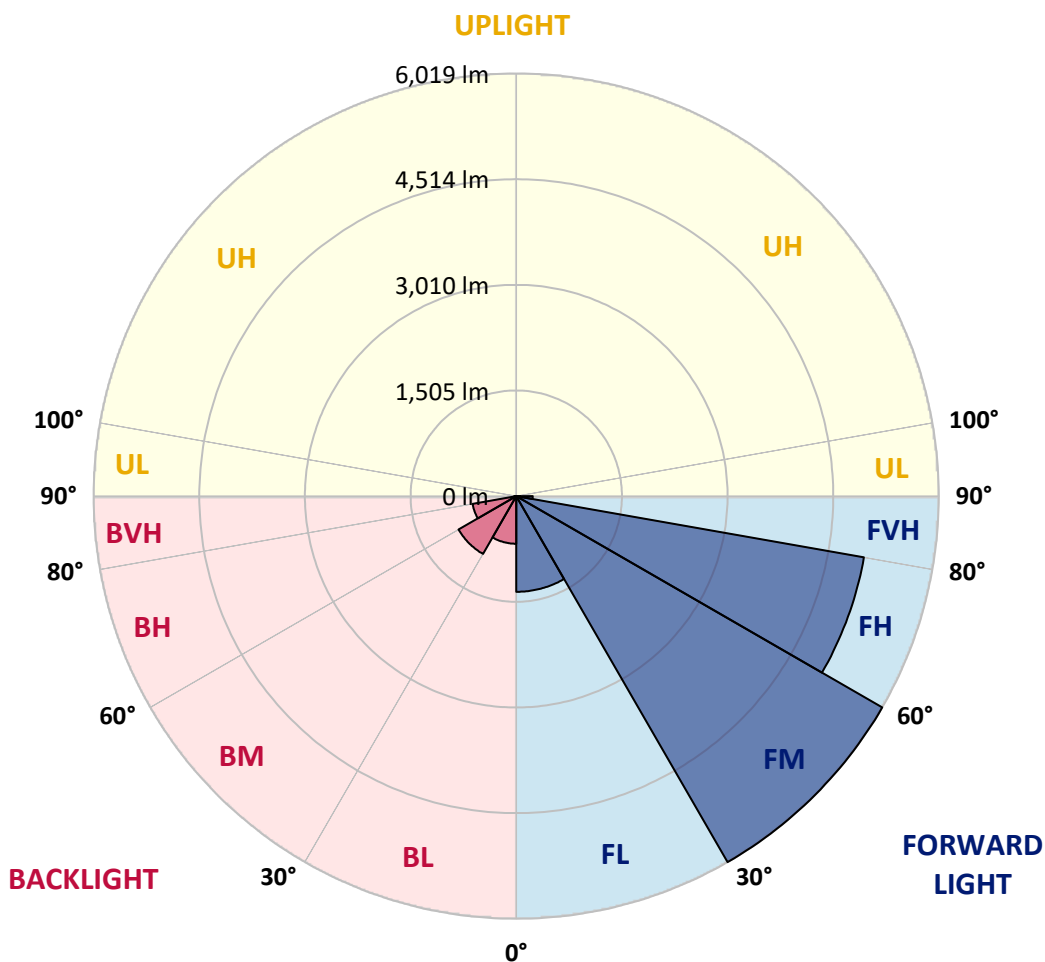
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.8	9.1			
FM (30°-60°)	6019.0	40.3			
FH (60°-80°)	5027.8	33.7			G3/7500
FVH (80°-90°)	235.5	1.6			G3/500
BL (0°-30°)	678.3	4.5	B2/1000		
BM (30°-60°)	949.3	6.4	B1/1000		
BH (60°-80°)	631.6	4.2	B2/1000		G2/1000
BVH (80°-90°)	31.3	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°	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1
2.5°	4218.0	4224.7	4224.7	4238.1	4192.8	4214.6	4211.3	4191.1	4197.8	4162.5	4127.2
5°	4098.7	4093.6	4120.5	4123.9	4159.2	4169.2	4177.7	4164.2	4167.6	4090.3	4056.7
7.5°	3792.8	3791.1	3836.5	3875.2	3949.1	4018.0	4063.4	4049.9	4068.4	4019.7	3940.7
10°	3429.8	3468.5	3515.5	3554.2	3690.3	3777.7	3895.3	3907.1	3977.7	3965.9	3823.1
12.5°	3157.6	3174.4	3209.7	3320.6	3445.0	3589.5	3757.5	3772.7	3841.6	3875.2	3750.8
15°	2934.1	2949.2	2994.6	3076.9	3216.4	3387.8	3601.3	3639.9	3777.7	3789.5	3656.7
17.5°	2771.1	2782.9	2813.1	2895.5	3009.7	3229.9	3431.5	3500.4	3681.9	3739.0	3559.2
20°	2707.2	2682.0	2698.8	2750.9	2865.2	3034.9	3295.4	3355.9	3587.8	3700.4	3466.8
22.5°	2678.7	2656.8	2666.9	2663.5	2754.3	2875.3	3149.2	3213.1	3498.7	3655.0	3384.5
25°	2700.5	2700.5	2690.4	2682.0	2692.1	2771.1	2991.2	3090.4	3379.4	3616.4	3300.4
27.5°	2818.2	2772.8	2777.8	2742.5	2732.4	2732.4	2920.7	2979.5	3340.8	3594.5	3231.5
30°	2893.8	2915.6	2917.3	2865.2	2813.1	2719.0	2855.1	2912.3	3308.8	3621.4	3191.2
32.5°	3087.0	3076.9	3048.4	3038.3	2961.0	2855.1	2887.0	2925.7	3290.4	3681.9	3203.0
35°	3280.3	3275.2	3276.9	3271.9	3191.2	3034.9	2972.8	3024.8	3324.0	3787.8	3243.3
37.5°	3480.3	3493.7	3550.8	3550.8	3465.1	3295.4	3213.1	3197.9	3446.6	3960.9	3339.1
40°	3680.2	3713.8	3786.1	3900.4	3779.4	3621.4	3488.7	3465.1	3594.5	4192.8	3569.3
42.5°	3871.8	3927.3	4070.1	4239.8	4199.5	4041.5	3865.1	3838.2	3898.7	4537.3	3890.3
45°	4117.2	4164.2	4389.4	4649.9	4705.3	4565.8	4359.1	4337.3	4333.9	5041.4	4332.3
47.5°	4490.2	4540.6	4765.8	5028.0	5199.4	5221.2	4989.3	4965.8	4885.1	5722.0	4979.2
50°	4957.4	5039.7	5229.6	5535.5	5784.2	6017.8	5952.2	5883.3	5725.4	6513.5	5799.3
52.5°	5298.5	5399.4	5656.5	6048.0	6486.6	6858.0	7093.3	7093.3	6730.3	7382.3	6785.7
55°	5389.3	5449.8	5774.1	6340.4	7091.6	8031.0	8523.4	8486.4	7926.8	8296.5	7933.5
57.5°	5028.0	5107.0	5500.2	6093.4	7409.2	9128.3	9943.3	9951.8	9234.2	9358.5	9066.1
60°	4033.1	4058.3	4522.1	5315.3	7103.4	10012.2	11882.6	11914.5	10721.4	10304.7	9642.5
62.5°	2787.9	2868.6	3218.1	3913.8	5885.0	9913.1	13753.0	13910.9	11912.9	10803.8	9733.3
65°	1835.1	1883.8	2070.3	2493.8	4097.0	8592.2	14334.4	14821.8	12823.7	10832.3	9353.5
67.5°	1330.9	1339.3	1394.8	1613.3	2461.9	6179.1	13341.3	14028.6	13164.8	10593.7	8462.9
70°	1075.5	1082.2	1102.4	1241.9	1589.7	3866.8	10881.1	11958.2	12141.4	9462.7	6816.0
72.5°	873.8	882.2	907.5	1038.5	1310.8	2151.0	7957.0	9269.5	9876.1	7000.8	4530.6
75°	687.3	694.0	754.5	883.9	1231.8	1477.1	5278.4	6563.9	6646.3	4091.9	2120.8
77.5°	470.5	482.3	556.2	749.5	1159.5	1292.3	3290.4	4204.5	3772.7	1601.5	729.3
80°	299.1	315.9	359.6	568.0	1025.1	1233.5	2046.8	2510.6	1651.9	547.8	351.2
82.5°	176.4	193.3	236.9	368.0	804.9	1144.4	1441.8	1571.2	774.7	280.6	211.7
85°	97.5	109.2	142.8	221.8	472.2	1016.7	1154.5	1127.6	443.6	149.6	132.8
87.5°	31.9	37.0	52.1	89.1	194.9	478.9	692.4	650.3	230.2	68.9	52.1
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°	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1	4107.1
2.5°	4103.7	4098.7	4023.0	3965.9	3868.4	3787.8	3755.9	3712.2	3710.5	3678.6	3670.1
5°	4004.6	3952.5	3836.5	3725.6	3552.5	3436.6	3330.7	3256.8	3226.5	3161.0	3145.8
7.5°	3876.8	3807.9	3629.8	3421.4	3218.1	3036.6	2871.9	2707.2	2614.8	2582.9	2547.6
10°	3744.1	3623.1	3359.3	3125.7	2841.7	2562.7	2303.9	2072.0	1946.0	1856.9	1818.3
12.5°	3638.2	3476.9	3140.8	2791.3	2416.5	2043.5	1742.6	1499.0	1356.1	1288.9	1258.7
15°	3518.9	3305.5	2902.2	2460.2	1993.0	1569.6	1275.5	1083.9	1026.8	994.8	989.8
17.5°	3392.9	3145.8	2643.4	2134.2	1579.6	1181.4	991.5	914.2	889.0	875.5	868.8
20°	3275.2	3003.0	2377.9	1771.2	1236.8	947.8	858.7	818.4	816.7	823.4	821.8
22.5°	3108.9	2816.5	2115.7	1435.1	988.1	825.1	768.0	757.9	768.0	776.4	779.7
25°	3014.8	2663.5	1823.3	1139.4	816.7	732.7	714.2	710.8	726.0	736.0	734.4
27.5°	2917.3	2505.6	1551.1	912.5	715.9	667.1	663.8	667.1	682.3	697.4	695.7
30°	2841.7	2379.5	1295.6	762.9	638.6	620.1	616.7	620.1	628.5	630.2	630.2
32.5°	2779.5	2230.0	1078.9	662.1	591.5	576.4	579.8	578.1	579.8	581.4	583.1
35°	2742.5	2140.9	900.7	599.9	552.9	541.1	539.4	534.4	536.1	537.8	536.1
37.5°	2821.5	2097.2	759.6	556.2	526.0	515.9	512.5	509.2	504.1	504.1	504.1
40°	2940.8	2073.7	673.9	527.7	505.8	494.1	484.0	480.6	480.6	482.3	484.0
42.5°	3177.8	2112.4	615.1	505.8	480.6	467.2	457.1	458.8	463.8	468.9	465.5
45°	3520.6	2230.0	588.2	489.0	465.5	447.0	440.3	438.6	443.6	452.0	458.8
47.5°	3969.3	2413.2	578.1	473.9	455.4	430.2	421.8	426.8	433.6	445.3	440.3
50°	4703.6	2824.9	586.5	460.4	440.3	421.8	411.7	406.7	411.7	420.1	423.5
52.5°	5663.2	3572.7	618.4	453.7	430.2	415.1	398.3	389.9	394.9	401.6	401.6
55°	6811.0	4594.4	707.5	445.3	413.4	405.0	386.5	369.7	373.1	373.1	371.4
57.5°	7822.6	5365.7	813.3	433.6	403.3	391.5	368.0	347.9	344.5	346.2	347.9
60°	8276.3	5570.8	863.8	430.2	403.3	374.7	342.8	322.7	317.6	314.2	314.2
62.5°	8197.3	5216.2	761.3	415.1	413.4	361.3	319.3	297.4	290.7	284.0	285.7
65°	7720.1	4710.4	599.9	394.9	415.1	352.9	295.8	273.9	262.2	253.8	252.1
67.5°	6847.9	4021.4	475.6	379.8	398.3	337.8	275.6	250.4	240.3	231.9	228.5
70°	5357.3	3152.6	413.4	359.6	357.9	300.8	252.1	230.2	215.1	205.0	205.0
72.5°	3473.5	1993.0	354.6	319.3	309.2	252.1	218.5	205.0	193.3	184.9	184.9
75°	1572.9	925.9	285.7	267.2	252.1	201.7	184.9	178.1	168.0	159.6	159.6
77.5°	564.6	394.9	213.4	210.1	188.2	156.3	149.6	144.5	137.8	129.4	129.4
80°	315.9	250.4	159.6	152.9	131.1	116.0	107.6	107.6	104.2	99.1	97.5
82.5°	200.0	163.0	117.6	102.5	85.7	77.3	73.9	72.3	70.6	63.9	62.2
85°	126.0	110.9	77.3	60.5	50.4	38.7	37.0	35.3	31.9	28.6	28.6
87.5°	57.1	63.9	30.2	18.5	13.4	8.4	5.0	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)