

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: P480615

Luminaire Tested: **IFLD-S-SA3C-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480615  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-827-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

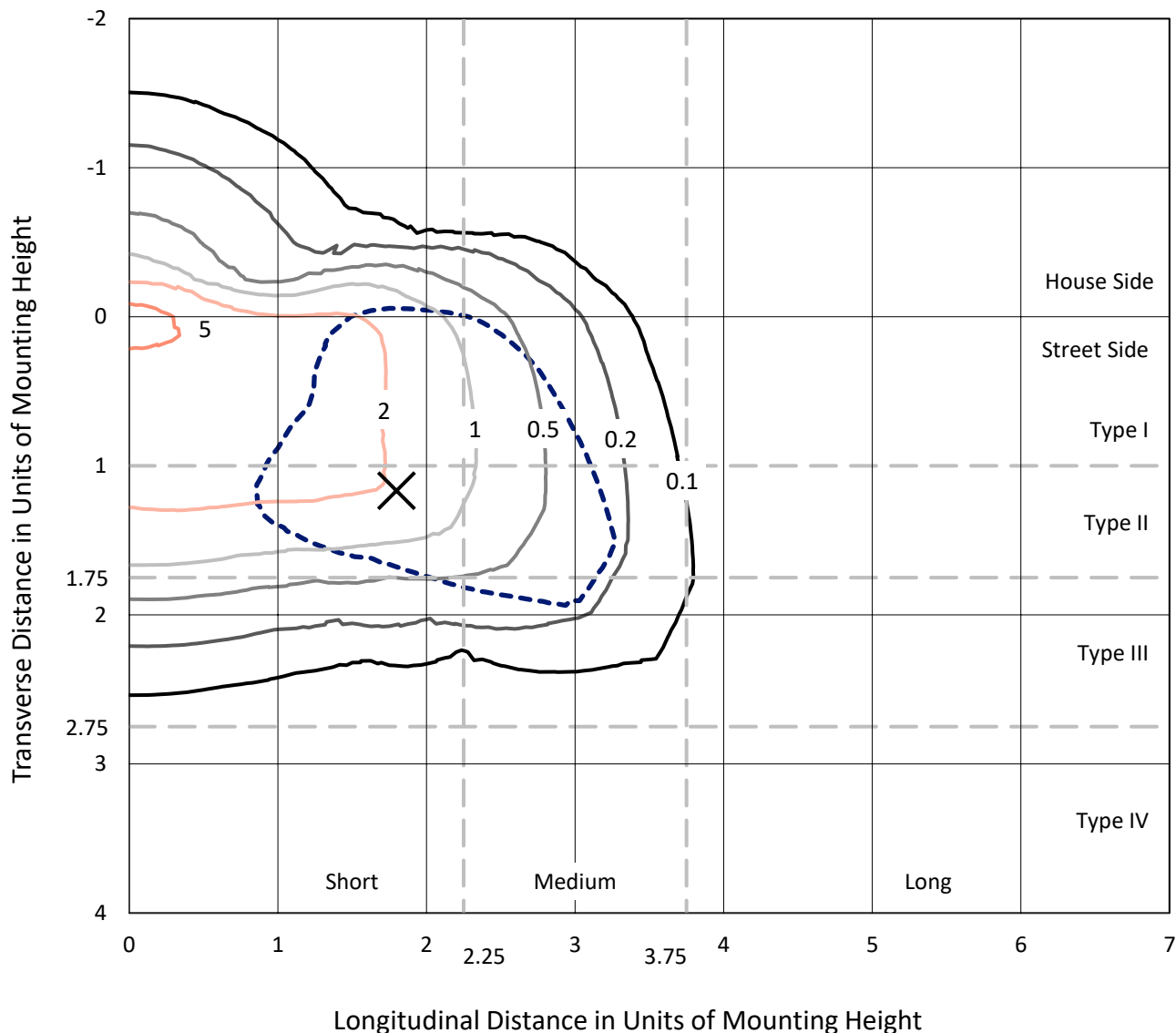
Lumens per Lamp: N/A  
Luminaire Lumens: 15364.2 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8  
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

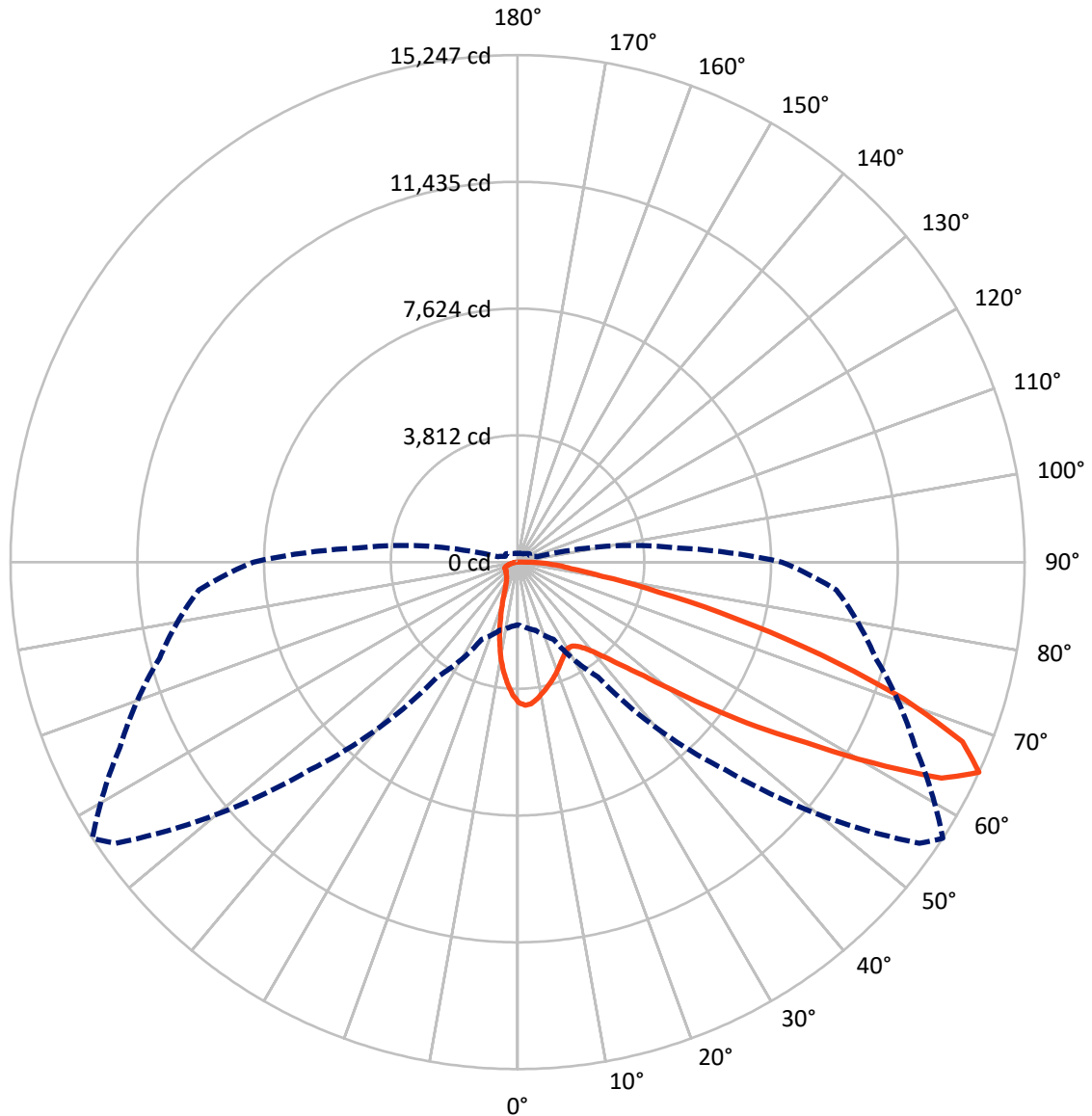
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P480615  
CATALOG NUMBER: IFLD-S-SA3C-827-U-SL3

### 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	2356.2	0.0	2356.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	13007.9	0.0	13007.9
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	15364.2	0.0	15364.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.8	2.3
10°-20°	761.4	5.0
20°-30°	984.5	6.4
30°-40°	1324.8	8.6
40°-50°	2112.4	13.7
50°-60°	3731.1	24.3
60°-70°	4104.7	26.7
70°-80°	1717.1	11.2
80°-90°	274.4	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°	15364.2	100.0
0°-180°	15364.2	100.0

**Coefficient of Utilization**



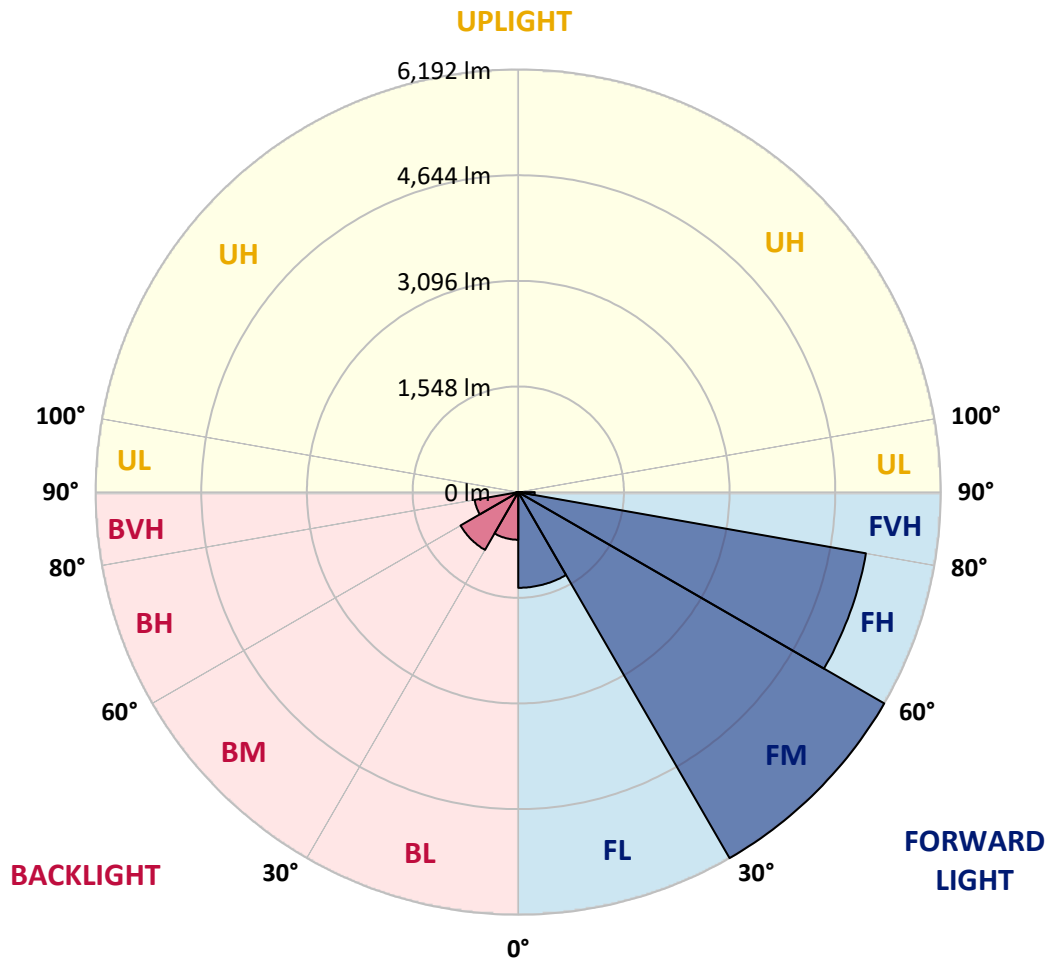
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 CATALOG NUMBER: IFLD-S-SA3C-827-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1401.9	9.1			
FM (30°-60°)	6191.8	40.3			
FH (60°-80°)	5172.0	33.7			G3/7500
FVH (80°-90°)	242.2	1.6			G3/500
BL (0°-30°)	697.8	4.5	B2/1000		
BM (30°-60°)	976.6	6.4	B1/1000		
BH (60°-80°)	649.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	32.2	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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CATALOG NUMBER: IFLD-S-SA3C-827-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9
2.5°	4339.0	4345.9	4345.9	4359.8	4313.1	4335.6	4332.1	4311.4	4318.3	4282.0	4245.7
5°	4216.3	4211.1	4238.8	4242.2	4278.5	4288.9	4297.5	4283.7	4287.2	4207.6	4173.1
7.5°	3901.7	3899.9	3946.6	3986.4	4062.4	4133.3	4180.0	4166.2	4185.2	4135.0	4053.8
10°	3528.3	3568.0	3616.4	3656.2	3796.2	3886.1	4007.1	4019.2	4091.8	4079.7	3932.8
12.5°	3248.2	3265.5	3301.8	3415.9	3543.8	3692.5	3865.4	3880.9	3951.8	3986.4	3858.4
15°	3018.3	3033.9	3080.5	3165.2	3308.7	3485.1	3704.6	3744.4	3886.1	3898.2	3761.6
17.5°	2850.6	2862.7	2893.8	2978.5	3096.1	3322.6	3530.0	3600.9	3787.6	3846.3	3661.4
20°	2784.9	2759.0	2776.3	2829.9	2947.4	3122.0	3390.0	3452.2	3690.8	3806.6	3566.3
22.5°	2755.5	2733.1	2743.4	2740.0	2833.3	2957.8	3239.6	3305.3	3599.1	3759.9	3481.6
25°	2778.0	2778.0	2767.6	2759.0	2769.4	2850.6	3077.1	3179.1	3476.4	3720.2	3395.2
27.5°	2899.0	2852.3	2857.5	2821.2	2810.9	2810.9	3004.5	3065.0	3436.6	3697.7	3324.3
30°	2976.8	2999.3	3001.0	2947.4	2893.8	2797.0	2937.1	2995.8	3403.8	3725.3	3282.8
32.5°	3175.6	3165.2	3135.9	3125.5	3046.0	2937.1	2969.9	3009.7	3384.8	3787.6	3294.9
35°	3374.4	3369.2	3371.0	3365.8	3282.8	3122.0	3058.1	3111.7	3419.4	3896.5	3336.4
37.5°	3580.1	3594.0	3652.7	3652.7	3564.6	3390.0	3305.3	3289.7	3545.6	4074.5	3434.9
40°	3785.8	3820.4	3894.8	4012.3	3887.8	3725.3	3588.8	3564.6	3697.7	4313.1	3671.7
42.5°	3982.9	4040.0	4186.9	4361.5	4320.0	4157.5	3976.0	3948.3	4010.6	4667.5	4001.9
45°	4235.3	4283.7	4515.4	4783.3	4840.3	4696.9	4484.2	4461.8	4458.3	5186.1	4456.6
47.5°	4619.1	4670.9	4902.6	5172.3	5348.6	5371.1	5132.5	5108.3	5025.3	5886.2	5122.1
50°	5099.7	5184.4	5379.7	5694.3	5950.2	6190.5	6123.0	6052.2	5889.7	6700.4	5965.7
52.5°	5450.6	5554.3	5818.8	6221.6	6672.8	7054.8	7296.8	7296.8	6923.4	7594.2	6980.5
55°	5543.9	5606.2	5939.8	6522.4	7295.1	8261.4	8767.9	8729.9	8154.3	8534.6	8161.2
57.5°	5172.3	5253.5	5658.0	6268.3	7621.8	9390.3	10228.7	10237.3	9499.2	9627.1	9326.3
60°	4148.9	4174.8	4651.9	5467.9	7307.2	10299.6	12223.6	12256.5	11029.1	10600.4	9919.3
62.5°	2867.9	2950.9	3310.5	4026.1	6053.9	10197.6	14147.6	14310.1	12254.7	11113.8	10012.6
65°	1887.7	1937.9	2129.8	2565.4	4214.6	8838.8	14745.8	15247.1	13191.7	11143.2	9621.9
67.5°	1369.1	1377.8	1434.8	1659.5	2532.5	6356.4	13724.1	14431.2	13542.6	10897.7	8705.7
70°	1106.4	1113.3	1134.0	1277.5	1635.3	3977.7	11193.3	12301.4	12489.8	9734.3	7011.6
72.5°	898.9	907.6	933.5	1068.3	1348.4	2212.7	8185.4	9535.5	10159.5	7201.7	4660.6
75°	707.0	714.0	776.2	909.3	1267.1	1519.5	5429.8	6752.3	6837.0	4209.4	2181.6
77.5°	484.0	496.1	572.2	771.0	1192.8	1329.4	3384.8	4325.2	3880.9	1647.4	750.3
80°	307.7	325.0	369.9	584.3	1054.5	1268.9	2105.6	2582.7	1699.3	563.6	361.3
82.5°	181.5	198.8	243.7	378.6	828.0	1177.2	1483.2	1616.3	796.9	288.7	217.8
85°	100.3	112.4	146.9	228.2	485.8	1045.9	1187.6	1160.0	456.4	153.9	136.6
87.5°	32.8	38.0	53.6	91.6	200.5	492.7	712.2	669.0	236.8	70.9	53.6
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°	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9	4224.9
2.5°	4221.5	4216.3	4138.5	4079.7	3979.5	3896.5	3863.6	3818.7	3817.0	3784.1	3775.5
5°	4119.5	4065.9	3946.6	3832.5	3654.5	3535.2	3426.3	3350.2	3319.1	3251.7	3236.1
7.5°	3988.1	3917.2	3734.0	3519.6	3310.5	3123.8	2954.3	2784.9	2689.9	2657.0	2620.7
10°	3851.5	3727.1	3455.7	3215.4	2923.2	2636.3	2370.0	2131.5	2001.8	1910.2	1870.4
12.5°	3742.6	3576.7	3230.9	2871.4	2485.9	2102.1	1792.7	1542.0	1395.1	1325.9	1294.8
15°	3619.9	3400.3	2985.5	2530.8	2050.2	1614.6	1312.1	1115.0	1056.2	1023.4	1018.2
17.5°	3490.2	3236.1	2719.2	2195.4	1625.0	1215.3	1019.9	940.4	914.5	900.7	893.7
20°	3369.2	3089.2	2446.1	1822.0	1272.3	975.0	883.4	841.9	840.1	847.1	845.3
22.5°	3198.1	2897.3	2176.4	1476.3	1016.5	848.8	790.0	779.6	790.0	798.7	802.1
25°	3101.3	2740.0	1875.6	1172.1	840.1	753.7	734.7	731.2	746.8	757.2	755.4
27.5°	3001.0	2577.5	1595.6	938.7	736.4	686.3	682.8	686.3	701.9	717.4	715.7
30°	2923.2	2447.8	1332.8	784.8	656.9	637.9	634.4	637.9	646.5	648.3	648.3
32.5°	2859.3	2294.0	1109.8	681.1	608.5	592.9	596.4	594.7	596.4	598.1	599.9
35°	2821.2	2202.4	926.6	617.1	568.7	556.6	554.9	549.7	551.5	553.2	551.5
37.5°	2902.5	2157.4	781.4	572.2	541.1	530.7	527.3	523.8	518.6	518.6	518.6
40°	3025.2	2133.2	693.2	542.8	520.3	508.2	497.9	494.4	494.4	496.1	497.9
42.5°	3269.0	2173.0	632.7	520.3	494.4	480.6	470.2	471.9	477.1	482.3	478.8
45°	3621.6	2294.0	605.0	503.1	478.8	459.8	452.9	451.2	456.4	465.0	471.9
47.5°	4083.2	2482.4	594.7	487.5	468.5	442.5	433.9	439.1	446.0	458.1	452.9
50°	4838.6	2905.9	603.3	473.7	452.9	433.9	423.5	418.3	423.5	432.2	435.6
52.5°	5825.7	3675.2	636.2	466.7	442.5	427.0	409.7	401.1	406.2	413.2	413.2
55°	7006.4	4726.3	727.8	458.1	425.3	416.6	397.6	380.3	383.8	383.8	382.0
57.5°	8047.1	5519.7	836.7	446.0	414.9	402.8	378.6	357.8	354.4	356.1	357.8
60°	8513.8	5730.6	888.5	442.5	414.9	385.5	352.7	331.9	326.7	323.3	323.3
62.5°	8432.6	5365.9	783.1	427.0	425.3	371.7	328.5	306.0	299.1	292.1	293.9
65°	7941.6	4845.5	617.1	406.2	427.0	363.0	304.3	281.8	269.7	261.0	259.3
67.5°	7044.4	4136.8	489.2	390.7	409.7	347.5	283.5	257.6	247.2	238.6	235.1
70°	5511.1	3243.0	425.3	369.9	368.2	309.4	259.3	236.8	221.3	210.9	210.9
72.5°	3573.2	2050.2	364.8	328.5	318.1	259.3	224.7	210.9	198.8	190.2	190.2
75°	1618.1	952.5	293.9	274.9	259.3	207.4	190.2	183.2	172.9	164.2	164.2
77.5°	580.8	406.2	219.5	216.1	193.6	160.8	153.9	148.7	141.8	133.1	133.1
80°	325.0	257.6	164.2	157.3	134.8	119.3	110.6	110.6	107.2	102.0	100.3
82.5°	205.7	167.7	121.0	105.5	88.2	79.5	76.1	74.3	72.6	65.7	64.0
85°	129.7	114.1	79.5	62.2	51.9	39.8	38.0	36.3	32.8	29.4	29.4
87.5°	58.8	65.7	31.1	19.0	13.8	8.6	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)