

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: P480628

Luminaire Tested: **IFLD-S-SA6A-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480628  
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-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

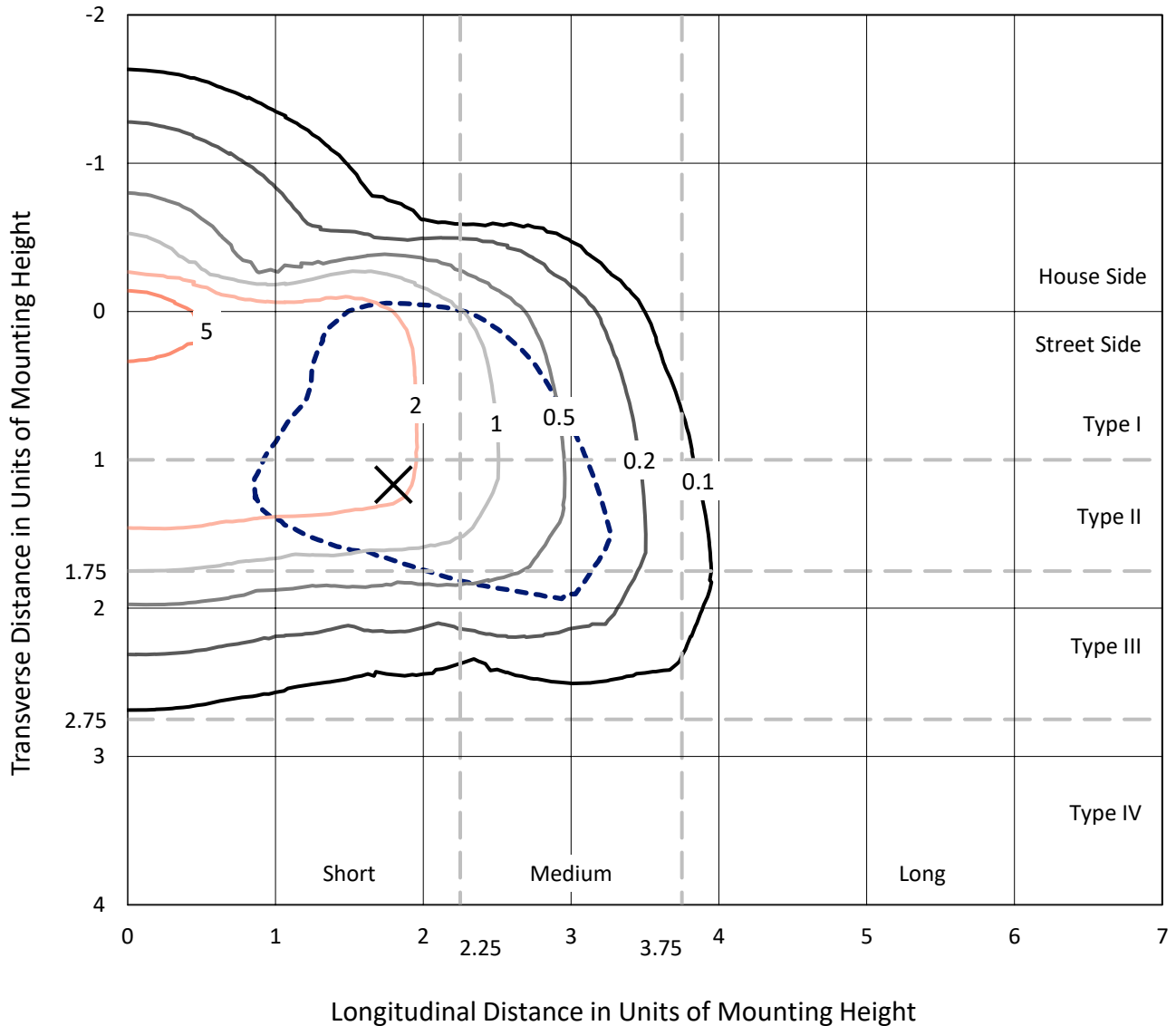
Lumens per Lamp: N/A  
Luminaire Lumens: 19577 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

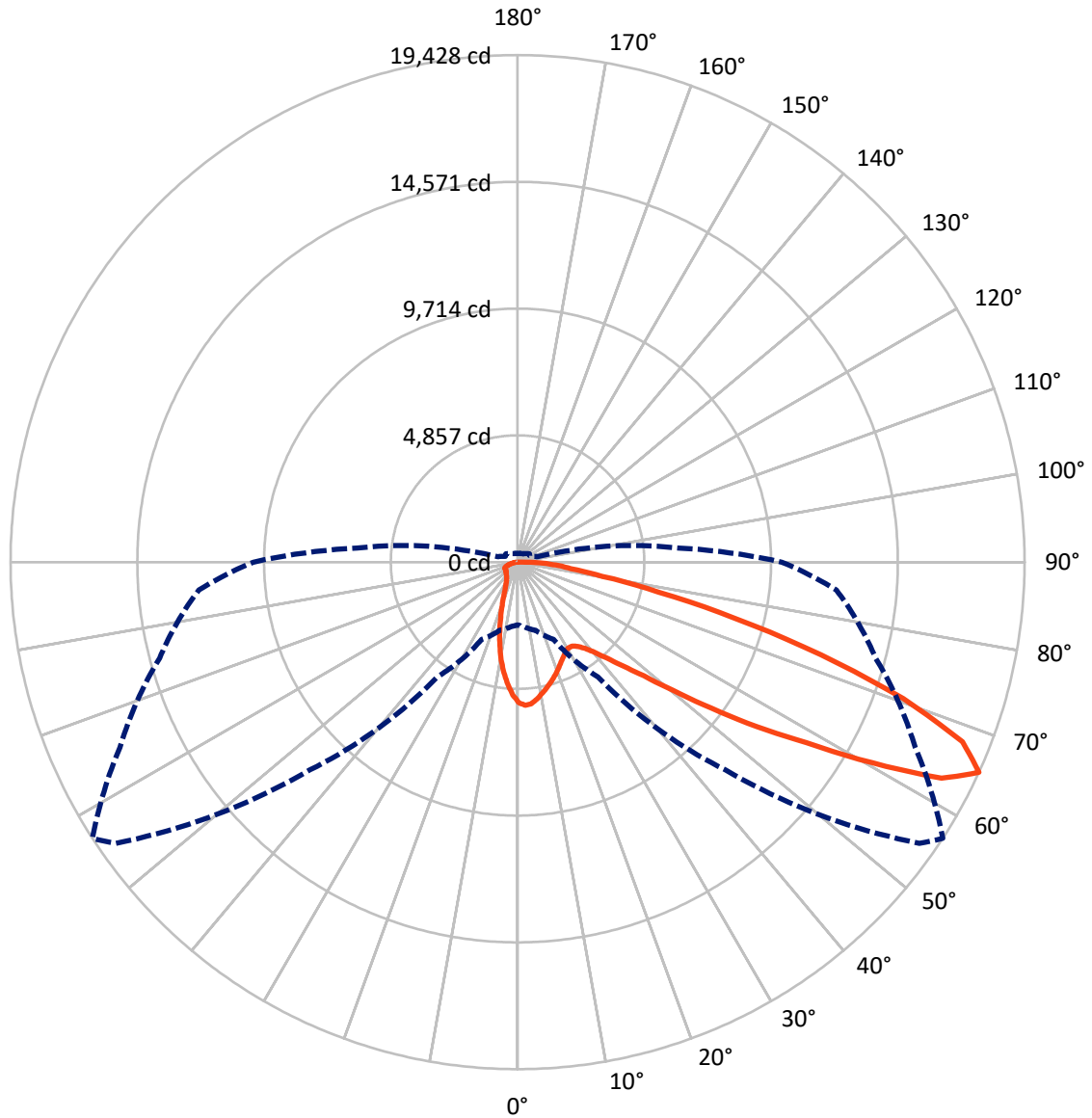
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	3002.3	0.0	3002.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	16574.6	0.0	16574.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	19577.0	0.0	19577.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.8	2.3
10°-20°	970.2	5.0
20°-30°	1254.4	6.4
30°-40°	1688.0	8.6
40°-50°	2691.7	13.7
50°-60°	4754.1	24.3
60°-70°	5230.2	26.7
70°-80°	2187.9	11.2
80°-90°	349.7	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°	19577.0	100.0
0°-180°	19577.0	100.0

**Coefficient of Utilization**



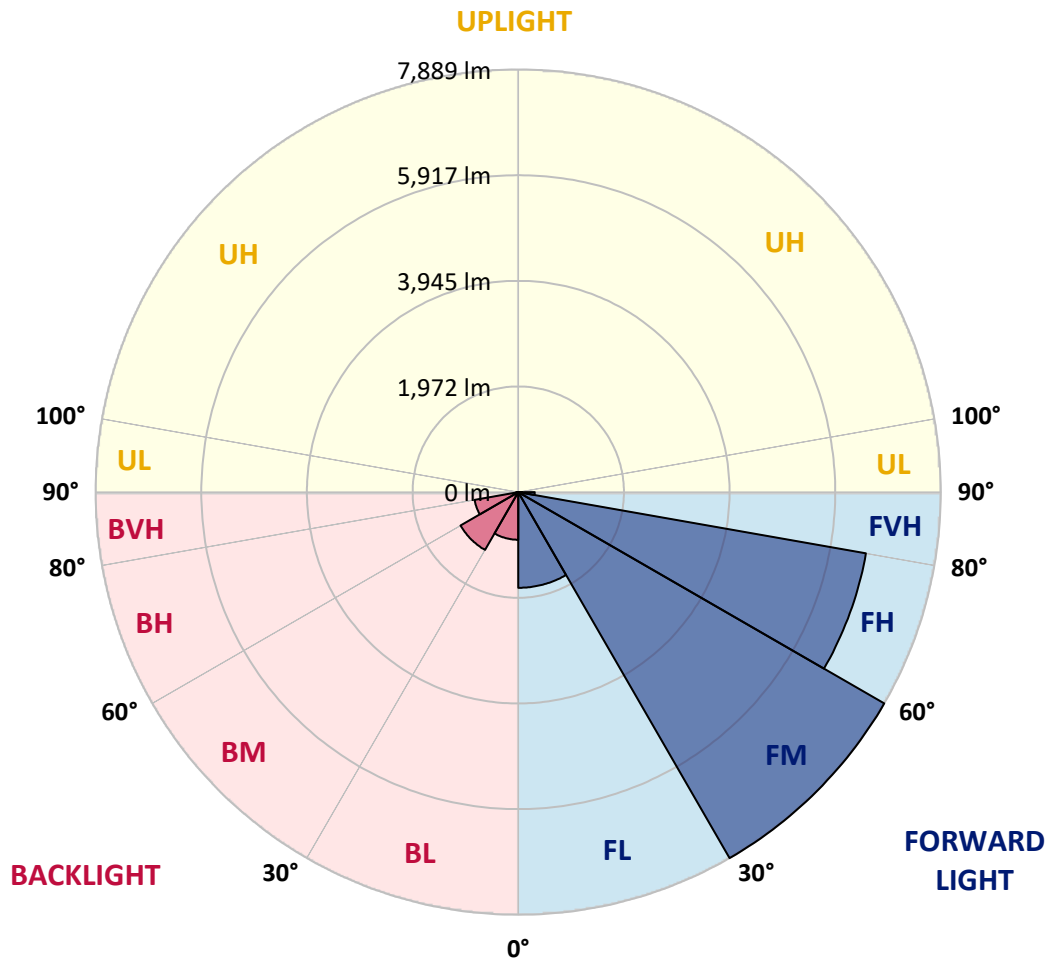
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.3	9.1			
FM (30°-60°)	7889.5	40.3			
FH (60°-80°)	6590.2	33.7			G3/7500
FVH (80°-90°)	308.6	1.6			G3/500
BL (0°-30°)	889.1	4.5	B2/1000		
BM (30°-60°)	1244.3	6.4	B2/2500		
BH (60°-80°)	827.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	41.0	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4
2.5°	5528.8	5537.6	5537.6	5555.2	5495.7	5524.4	5519.9	5493.5	5502.3	5456.1	5409.8
5°	5372.4	5365.8	5401.0	5405.4	5451.7	5464.9	5475.9	5458.3	5462.7	5361.4	5317.3
7.5°	4971.5	4969.3	5028.7	5079.4	5176.3	5266.6	5326.1	5308.5	5332.7	5268.8	5165.3
10°	4495.7	4546.4	4608.0	4658.7	4837.1	4951.7	5105.8	5121.3	5213.8	5198.4	5011.1
12.5°	4138.9	4160.9	4207.1	4352.5	4515.5	4705.0	4925.2	4945.0	5035.4	5079.4	4916.4
15°	3845.9	3865.7	3925.2	4033.1	4216.0	4440.6	4720.4	4771.0	4951.7	4967.1	4793.1
17.5°	3632.2	3647.7	3687.3	3795.2	3945.0	4233.6	4497.9	4588.2	4826.1	4901.0	4665.3
20°	3548.5	3515.5	3537.5	3605.8	3755.6	3978.1	4319.5	4398.8	4702.7	4850.3	4544.2
22.5°	3511.1	3482.5	3495.7	3491.3	3610.2	3768.8	4127.8	4211.5	4586.0	4790.9	4436.2
25°	3539.7	3539.7	3526.5	3515.5	3528.7	3632.2	3920.8	4050.8	4429.6	4740.2	4326.1
27.5°	3693.9	3634.4	3641.1	3594.8	3581.6	3581.6	3828.3	3905.4	4379.0	4711.6	4235.8
30°	3793.0	3821.7	3823.9	3755.6	3687.3	3564.0	3742.4	3817.3	4337.1	4746.8	4182.9
32.5°	4046.3	4033.1	3995.7	3982.5	3881.1	3742.4	3784.2	3834.9	4312.9	4826.1	4198.3
35°	4299.7	4293.0	4295.3	4288.6	4182.9	3978.1	3896.6	3964.8	4356.9	4964.9	4251.2
37.5°	4561.8	4579.4	4654.3	4654.3	4542.0	4319.5	4211.5	4191.7	4517.7	5191.7	4376.8
40°	4823.9	4868.0	4962.7	5112.5	4953.9	4746.8	4572.8	4542.0	4711.6	5495.7	4678.5
42.5°	5075.0	5147.7	5334.9	5557.4	5504.5	5297.5	5066.2	5031.0	5110.2	5947.3	5099.2
45°	5396.6	5458.3	5753.4	6094.9	6167.5	5984.7	5713.8	5685.2	5680.7	6608.1	5678.5
47.5°	5885.6	5951.7	6246.8	6590.5	6815.1	6843.8	6539.8	6509.0	6403.2	7500.2	6526.6
50°	6497.9	6605.9	6854.8	7255.7	7581.7	7887.8	7801.9	7711.6	7504.6	8537.6	7601.5
52.5°	6945.1	7077.3	7414.3	7927.5	8502.4	8989.2	9297.6	9297.6	8821.8	9676.4	8894.5
55°	7064.0	7143.3	7568.5	8310.8	9295.4	10526.7	11172.1	11123.6	10390.1	10874.7	10398.9
57.5°	6590.5	6694.0	7209.4	7987.0	9711.7	11965.0	13033.3	13044.3	12103.8	12266.8	11883.5
60°	5286.5	5319.5	5927.4	6967.1	9310.8	13123.6	15575.2	15617.1	14053.2	13506.9	12639.1
62.5°	3654.3	3760.0	4218.2	5130.1	7713.8	12993.7	18026.8	18233.9	15614.9	14161.1	12758.0
65°	2405.3	2469.2	2713.7	3268.8	5370.2	11262.4	18789.0	19427.8	16808.8	14198.6	12260.2
67.5°	1744.5	1755.5	1828.2	2114.6	3226.9	8099.3	17487.2	18388.1	17255.9	13885.8	11092.8
70°	1409.7	1418.5	1445.0	1627.8	2083.7	5068.4	14262.4	15674.4	15914.5	12403.4	8934.1
72.5°	1145.4	1156.4	1189.5	1361.3	1718.1	2819.4	10429.8	12150.1	12945.2	9176.4	5938.5
75°	900.9	909.7	989.0	1158.6	1614.6	1936.2	6918.7	8603.7	8711.7	5363.6	2779.8
77.5°	616.8	632.2	729.1	982.4	1519.9	1693.9	4312.9	5511.1	4945.0	2099.2	956.0
80°	392.1	414.1	471.4	744.5	1343.6	1616.8	2682.9	3290.8	2165.2	718.1	460.4
82.5°	231.3	253.3	310.6	482.4	1055.1	1500.0	1889.9	2059.5	1015.4	367.8	277.5
85°	127.8	143.2	187.2	290.8	619.0	1332.6	1513.3	1478.0	581.5	196.0	174.0
87.5°	41.9	48.5	68.3	116.7	255.5	627.8	907.5	852.4	301.8	90.3	68.3
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°	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4	5383.4
2.5°	5379.0	5372.4	5273.2	5198.4	5070.6	4964.9	4923.0	4865.7	4863.5	4821.7	4810.7
5°	5249.0	5180.7	5028.7	4883.4	4656.5	4504.5	4365.7	4268.8	4229.2	4143.3	4123.4
7.5°	5081.6	4991.3	4757.8	4484.7	4218.2	3980.3	3764.4	3548.5	3427.4	3385.5	3339.3
10°	4907.6	4749.0	4403.2	4097.0	3724.8	3359.1	3019.9	2715.9	2550.7	2434.0	2383.3
12.5°	4768.8	4557.4	4116.8	3658.7	3167.5	2678.5	2284.2	1964.8	1777.6	1689.5	1649.8
15°	4612.4	4332.7	3804.1	3224.7	2612.4	2057.3	1671.8	1420.7	1345.8	1304.0	1297.4
17.5°	4447.2	4123.4	3464.8	2797.4	2070.5	1548.5	1299.6	1198.3	1165.2	1147.6	1138.8
20°	4293.0	3936.2	3116.8	2321.6	1621.2	1242.3	1125.6	1072.7	1070.5	1079.3	1077.1
22.5°	4075.0	3691.7	2773.2	1881.1	1295.2	1081.5	1006.6	993.4	1006.6	1017.6	1022.0
25°	3951.6	3491.3	2389.9	1493.4	1070.5	960.4	936.1	931.7	951.6	964.8	962.6
27.5°	3823.9	3284.2	2033.1	1196.1	938.3	874.5	870.1	874.5	894.3	914.1	911.9
30°	3724.8	3119.0	1698.3	1000.0	837.0	812.8	808.4	812.8	823.8	826.0	826.0
32.5°	3643.3	2923.0	1414.1	867.9	775.3	755.5	759.9	757.7	759.9	762.1	764.3
35°	3594.8	2806.2	1180.6	786.4	724.7	709.3	707.1	700.5	702.7	704.9	702.7
37.5°	3698.3	2749.0	995.6	729.1	689.4	676.2	671.8	667.4	660.8	660.8	660.8
40°	3854.7	2718.1	883.3	691.6	663.0	647.6	634.4	630.0	630.0	632.2	634.4
42.5°	4165.3	2768.8	806.2	663.0	630.0	612.3	599.1	601.3	607.9	614.6	610.1
45°	4614.6	2923.0	770.9	641.0	610.1	585.9	577.1	574.9	581.5	592.5	601.3
47.5°	5202.8	3163.1	757.7	621.2	596.9	563.9	552.9	559.5	568.3	583.7	577.1
50°	6165.3	3702.7	768.7	603.5	577.1	552.9	539.7	533.1	539.7	550.7	555.1
52.5°	7423.1	4682.9	810.6	594.7	563.9	544.1	522.0	511.0	517.6	526.4	526.4
55°	8927.5	6022.2	927.3	583.7	541.9	530.8	506.6	484.6	489.0	489.0	486.8
57.5°	10253.5	7033.2	1066.1	568.3	528.6	513.2	482.4	456.0	451.6	453.8	456.0
60°	10848.3	7301.9	1132.2	563.9	528.6	491.2	449.3	422.9	416.3	411.9	411.9
62.5°	10744.7	6837.2	997.8	544.1	541.9	473.6	418.5	389.9	381.1	372.3	374.5
65°	10119.2	6174.1	786.4	517.6	544.1	462.6	387.7	359.0	343.6	332.6	330.4
67.5°	8976.0	5271.0	623.4	497.8	522.0	442.7	361.2	328.2	315.0	304.0	299.6
70°	7022.2	4132.3	541.9	471.4	469.2	394.3	330.4	301.8	281.9	268.7	268.7
72.5°	4553.0	2612.4	464.8	418.5	405.3	330.4	286.4	268.7	253.3	242.3	242.3
75°	2061.7	1213.7	374.5	350.2	330.4	264.3	242.3	233.5	220.3	209.3	209.3
77.5°	740.1	517.6	279.7	275.3	246.7	204.9	196.0	189.4	180.6	169.6	169.6
80°	414.1	328.2	209.3	200.4	171.8	152.0	141.0	141.0	136.6	130.0	127.8
82.5°	262.1	213.7	154.2	134.4	112.3	101.3	96.9	94.7	92.5	83.7	81.5
85°	165.2	145.4	101.3	79.3	66.1	50.7	48.5	46.3	41.9	37.4	37.4
87.5°	74.9	83.7	39.6	24.2	17.6	11.0	6.6	2.2	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)