

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: P481028

Luminaire Tested: **IFLD-L-SA7A-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481028
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

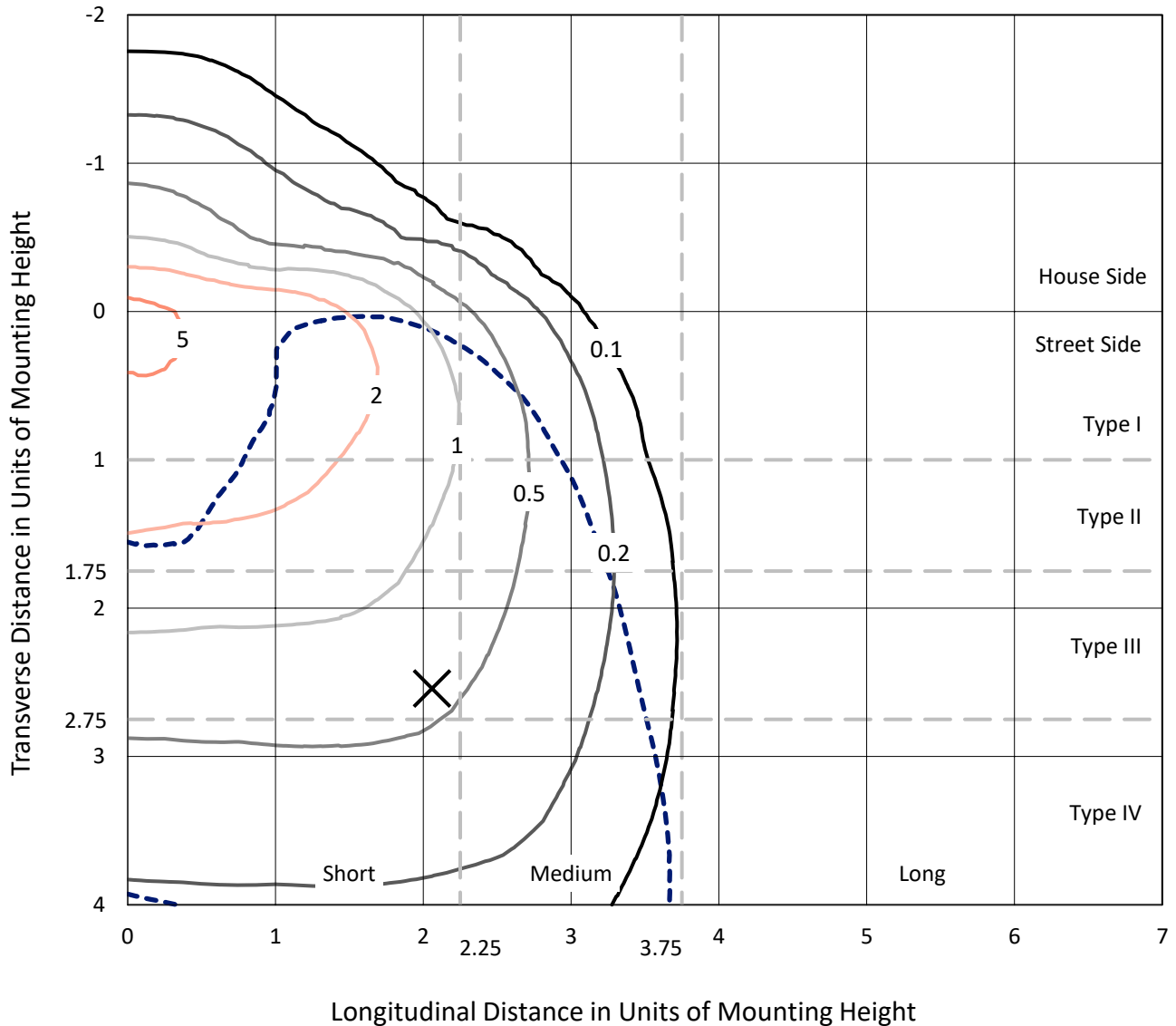
Lumens per Lamp: N/A
Luminaire Lumens: 22256.2 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

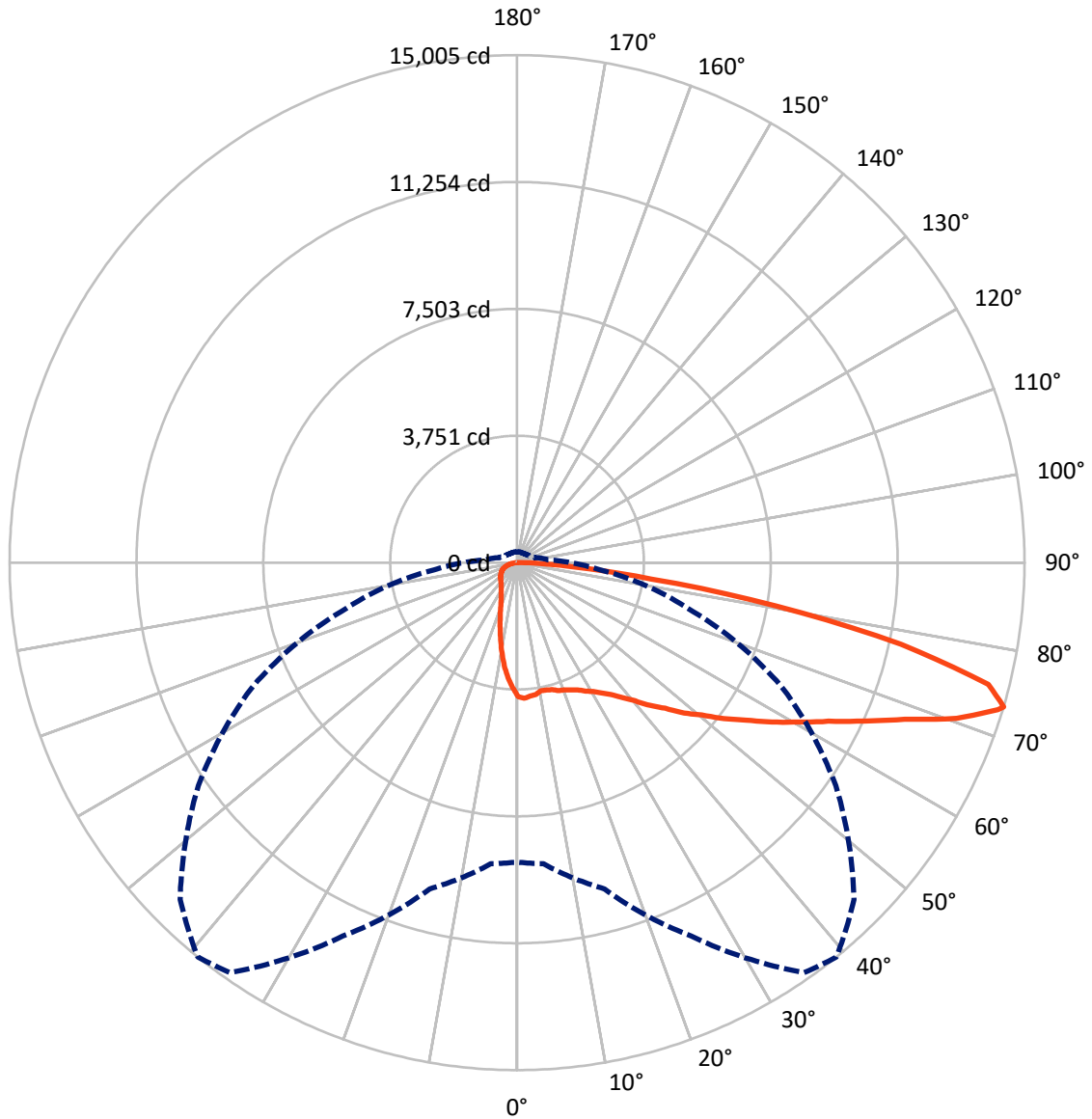
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3128.6	0.0	3128.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19127.6	0.0	19127.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	22256.2	0.0	22256.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.9	1.5
10°-20°	874.3	3.9
20°-30°	1336.0	6.0
30°-40°	1947.9	8.8
40°-50°	2943.5	13.2
50°-60°	4262.3	19.2
60°-70°	5415.5	24.3
70°-80°	4390.1	19.7
80°-90°	742.8	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°	22256.2	100.0
0°-180°	22256.2	100.0

Coefficient of Utilization



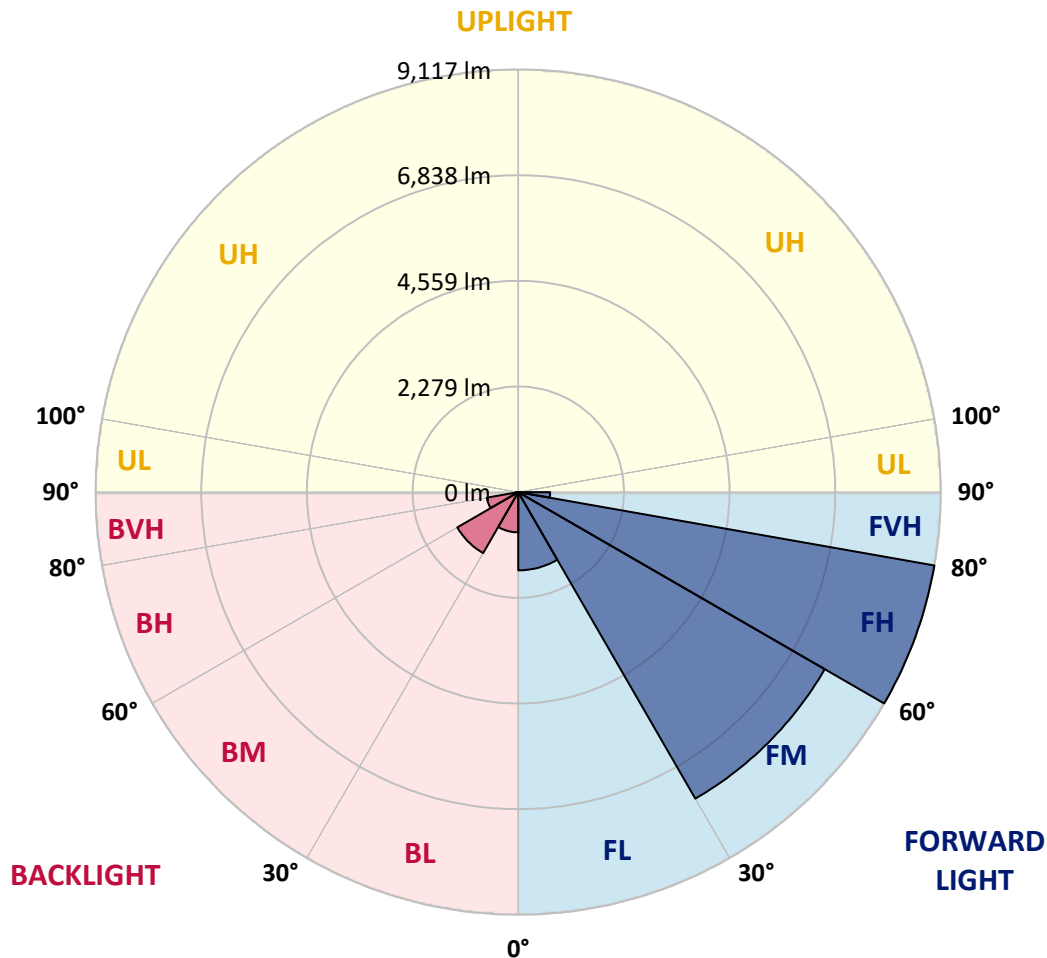
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.5	7.6			
FM (30°-60°)	7635.3	34.3			
FH (60°-80°)	9117.5	41.0			G4/12000
FVH (80°-90°)	688.3	3.1			G4/750
BL (0°-30°)	867.6	3.9	B2/1000		
BM (30°-60°)	1518.4	6.8	B2/2500		
BH (60°-80°)	688.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	54.5	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°	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7
2.5°	4056.4	4014.0	4021.5	4006.6	4021.5	4016.5	4009.0	3971.7	4009.0	3971.7	3961.7
5°	4001.6	4001.6	4026.5	3989.1	3994.1	3969.2	3994.1	3966.7	3941.8	3879.6	3862.1
7.5°	3984.1	3981.7	3984.1	3931.9	3956.8	3941.8	3916.9	3887.0	3837.2	3797.4	3740.1
10°	3864.6	3889.5	3862.1	3877.1	3897.0	3852.2	3849.7	3842.2	3819.8	3767.5	3732.6
12.5°	3799.9	3842.2	3857.1	3844.7	3862.1	3867.1	3852.2	3842.2	3814.8	3780.0	3680.4
15°	3827.3	3777.5	3819.8	3902.0	3884.5	3897.0	3899.5	3889.5	3877.1	3812.3	3747.6
17.5°	3834.7	3804.9	3894.5	3911.9	3934.3	3979.2	3949.3	3946.8	3899.5	3854.7	3760.0
20°	3852.2	3839.7	3911.9	4004.1	4006.6	4014.0	4029.0	3991.6	3966.7	3889.5	3745.1
22.5°	3916.9	3959.2	4026.5	4066.3	4088.7	4093.7	4093.7	4019.0	3991.6	3929.4	3814.8
25°	4111.1	4066.3	4160.9	4208.3	4175.9	4168.4	4151.0	4083.7	4053.9	3999.1	3847.2
27.5°	4253.1	4250.6	4305.4	4370.1	4283.0	4300.4	4238.1	4218.2	4151.0	4121.1	3904.5
30°	4447.3	4502.1	4499.6	4519.5	4405.0	4424.9	4345.2	4307.9	4270.5	4287.9	4073.8
32.5°	4696.3	4676.4	4708.8	4693.8	4579.3	4596.7	4502.1	4444.8	4457.3	4509.6	4305.4
35°	4855.7	4835.8	4848.2	4848.2	4813.3	4793.4	4753.6	4678.9	4738.6	4835.8	4564.3
37.5°	5027.5	5052.4	5124.6	5109.7	5064.8	5064.8	5059.9	5007.6	5084.8	5323.8	4977.7
40°	5179.4	5246.6	5291.4	5321.3	5373.6	5373.6	5415.9	5386.1	5525.5	5909.0	5483.2
42.5°	5338.8	5341.2	5585.3	5607.7	5724.7	5774.5	5806.9	5831.8	6093.2	6521.5	6023.5
45°	5542.9	5555.4	5769.5	5941.4	6123.1	6140.6	6262.6	6344.7	6666.0	7191.4	6611.2
47.5°	5811.9	5796.9	6026.0	6299.9	6526.5	6646.0	6793.0	6882.6	7278.5	7918.5	7253.6
50°	6165.5	6120.6	6252.6	6683.4	6949.8	7081.8	7343.3	7492.7	7955.8	8613.2	7694.4
52.5°	6596.2	6521.5	6626.1	7096.8	7395.6	7662.0	7911.0	8077.8	8560.9	9151.1	8020.6
55°	7051.9	6897.5	6927.4	7535.0	7965.8	8217.3	8558.4	8732.7	9225.8	9634.2	8346.8
57.5°	7502.6	7405.5	7345.8	7955.8	8645.6	8887.1	9200.9	9427.5	9845.8	10062.4	8623.2
60°	7881.1	7856.2	7759.1	8608.2	9365.2	9571.9	9900.6	10040.0	10356.3	10458.4	8628.2
62.5°	8192.4	8107.7	8262.1	9133.6	10097.3	10331.4	10692.4	10704.9	10929.0	10704.9	8374.2
65°	8436.4	8441.4	8687.9	9768.6	10943.9	11290.1	11581.4	11549.0	11404.6	10558.0	7774.1
67.5°	8658.0	8752.7	9113.7	10465.8	12032.1	12358.3	12682.0	12253.7	11534.1	9870.7	6601.2
70°	8832.3	8927.0	9688.9	11315.0	13314.5	13792.6	13864.8	12532.6	10939.0	8361.7	4980.2
72.5°	8812.4	8984.2	10015.1	11992.3	14452.5	14865.8	14283.2	11748.2	9113.7	5829.3	2905.9
73°	8854.8	8939.4	9987.7	12181.5	14798.6	15005.3	14088.9	11501.7	8595.8	5229.2	2457.7
75°	8038.0	8324.4	9492.2	11872.7	14427.6	14390.2	12973.4	9584.4	6110.7	2746.6	1190.3
77.5°	5946.3	6128.1	7480.2	9763.6	11842.9	11603.8	9786.0	6125.6	2901.0	1018.4	642.4
80°	2905.9	3047.9	3964.2	5637.6	7744.2	7764.1	6073.3	3187.3	1242.6	575.2	438.3
82.5°	1451.7	1536.4	1904.9	2477.6	3809.8	3991.6	3080.2	1812.8	769.4	326.2	249.0
85°	948.7	1008.5	1172.8	1212.7	1616.1	1705.7	1434.3	1414.4	500.5	176.8	201.7
87.5°	630.0	640.0	719.6	612.6	647.4	622.5	692.2	891.5	146.9	74.7	54.8
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°	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7
2.5°	3949.3	3914.4	3877.1	3824.8	3787.4	3730.2	3677.9	3655.5	3650.5	3653.0	3628.1
5°	3847.2	3797.4	3722.7	3615.6	3553.4	3458.7	3379.1	3336.7	3291.9	3299.4	3279.4
7.5°	3705.3	3650.5	3535.9	3411.4	3257.0	3122.6	3047.9	2943.3	2883.5	2838.7	2863.6
10°	3660.4	3565.8	3394.0	3222.2	2983.1	2806.3	2634.5	2515.0	2432.8	2353.1	2388.0
12.5°	3638.0	3543.4	3304.3	3050.4	2741.6	2472.7	2231.1	2084.2	1967.2	1897.4	1924.8
15°	3618.1	3501.1	3219.7	2861.1	2515.0	2161.4	1890.0	1695.8	1583.7	1516.5	1523.9
17.5°	3645.5	3478.7	3095.2	2676.8	2266.0	1887.5	1586.2	1384.5	1269.9	1227.6	1217.7
20°	3618.1	3453.8	2973.2	2492.6	2017.0	1626.0	1337.2	1170.3	1090.7	1055.8	1048.3
22.5°	3628.1	3394.0	2846.2	2288.4	1785.4	1406.9	1170.3	1043.3	981.1	963.7	968.6
25°	3675.4	3359.1	2719.2	2064.3	1556.3	1245.0	1063.3	966.2	921.3	903.9	908.9
27.5°	3710.2	3389.0	2604.6	1852.6	1362.1	1100.6	973.6	908.9	879.0	866.6	864.1
30°	3797.4	3406.4	2492.6	1663.4	1202.7	1006.0	911.4	859.1	839.2	831.7	829.2
32.5°	3926.9	3438.8	2363.1	1489.1	1085.7	916.4	861.6	816.7	811.8	804.3	806.8
35°	4138.5	3550.9	2218.7	1339.7	973.6	856.6	809.3	779.4	779.4	779.4	786.9
37.5°	4442.3	3707.7	2089.2	1197.7	901.4	804.3	764.5	754.5	749.5	757.0	762.0
40°	4833.3	3897.0	1984.6	1085.7	839.2	769.4	734.6	729.6	727.1	724.6	729.6
42.5°	5261.6	4138.5	1895.0	998.5	794.3	732.1	707.2	702.2	692.2	697.2	704.7
45°	5687.4	4437.3	1815.3	928.8	764.5	712.2	677.3	674.8	669.8	667.3	679.8
47.5°	6160.5	4731.2	1790.4	886.5	742.0	682.3	657.4	654.9	640.0	637.5	647.4
50°	6529.0	4947.8	1817.8	866.6	709.7	659.9	642.4	630.0	617.5	605.1	605.1
52.5°	6783.0	5097.2	1837.7	851.6	692.2	630.0	607.6	602.6	590.2	577.7	572.7
55°	7012.1	5186.9	1842.7	854.1	674.8	595.1	580.2	577.7	570.2	550.3	545.3
57.5°	7089.3	5149.5	1743.1	831.7	664.9	572.7	552.8	557.8	547.8	530.4	527.9
60°	7081.8	4890.5	1516.5	801.8	642.4	547.8	522.9	537.9	537.9	517.9	515.4
62.5°	6651.0	4292.9	1240.1	744.5	617.5	522.9	495.5	517.9	525.4	513.0	510.5
65°	5757.1	3496.1	1035.9	687.3	580.2	495.5	468.1	493.0	505.5	500.5	498.0
67.5°	4763.5	2674.4	861.6	612.6	532.9	458.2	435.8	453.2	460.7	463.2	465.6
70°	3366.6	1780.4	719.6	530.4	468.1	418.3	393.4	395.9	393.4	400.9	400.9
72.5°	1830.2	1025.9	585.2	450.7	403.4	363.6	346.1	333.7	333.7	331.2	331.2
73°	1566.3	921.3	557.8	438.3	386.0	353.6	333.7	323.7	323.7	321.2	318.7
75°	879.0	674.8	478.1	376.0	333.7	308.8	293.8	278.9	276.4	276.4	276.4
77.5°	577.7	525.4	381.0	301.3	268.9	246.5	241.5	226.6	226.6	226.6	224.1
80°	433.3	413.4	293.8	229.1	206.7	189.2	184.3	174.3	171.8	161.9	164.3
82.5°	288.9	326.2	214.1	161.9	139.4	129.5	129.5	127.0	119.5	107.1	107.1
85°	229.1	266.4	154.4	99.6	82.2	69.7	72.2	69.7	67.2	54.8	52.3
87.5°	42.3	107.1	44.8	27.4	19.9	12.5	12.5	7.5	5.0	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)