

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: P480365

Luminaire Tested: **IFLD-L-SA7A-722-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480365  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-722-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

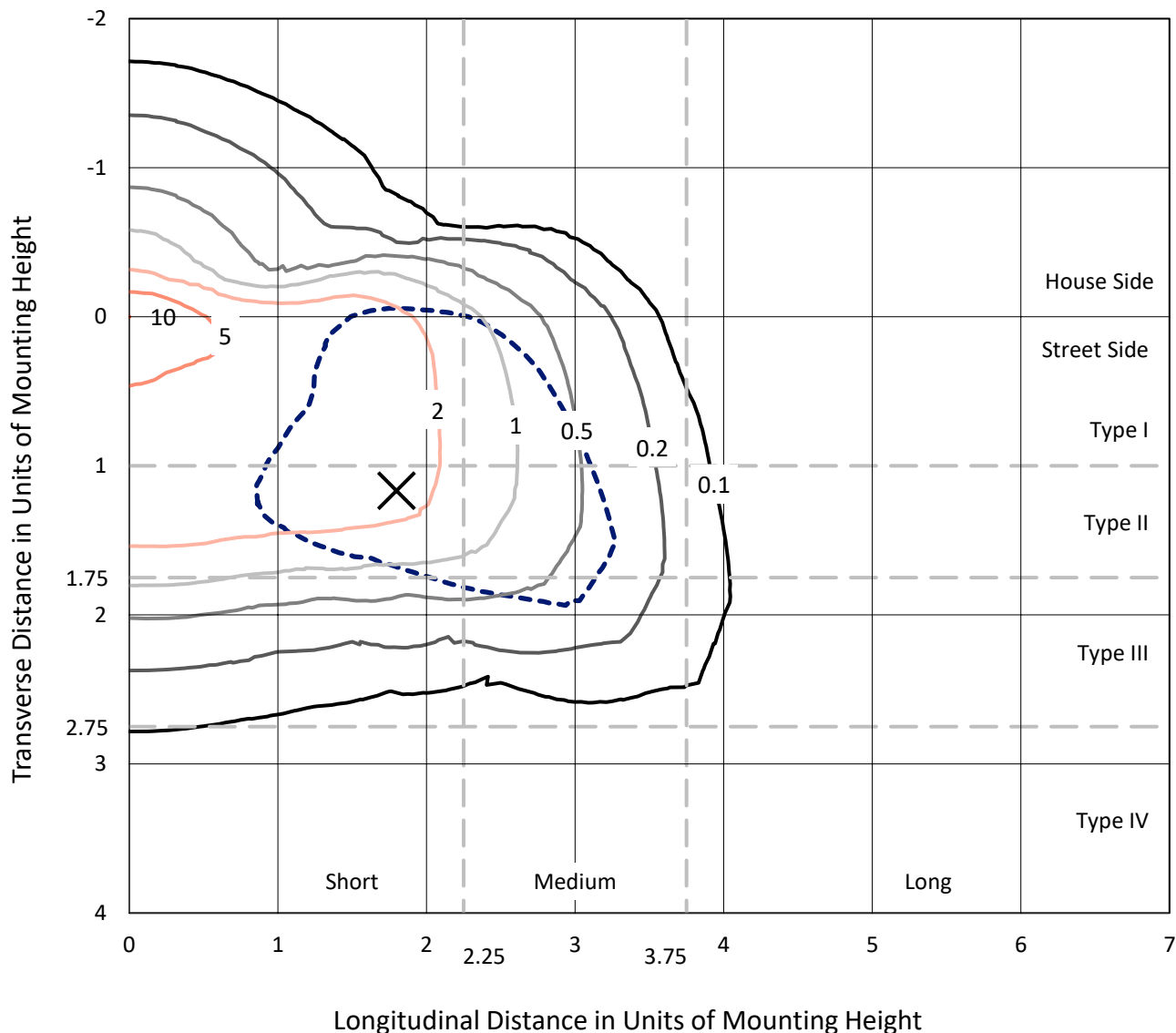
Lumens per Lamp: N/A  
Luminaire Lumens: 22749.9 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

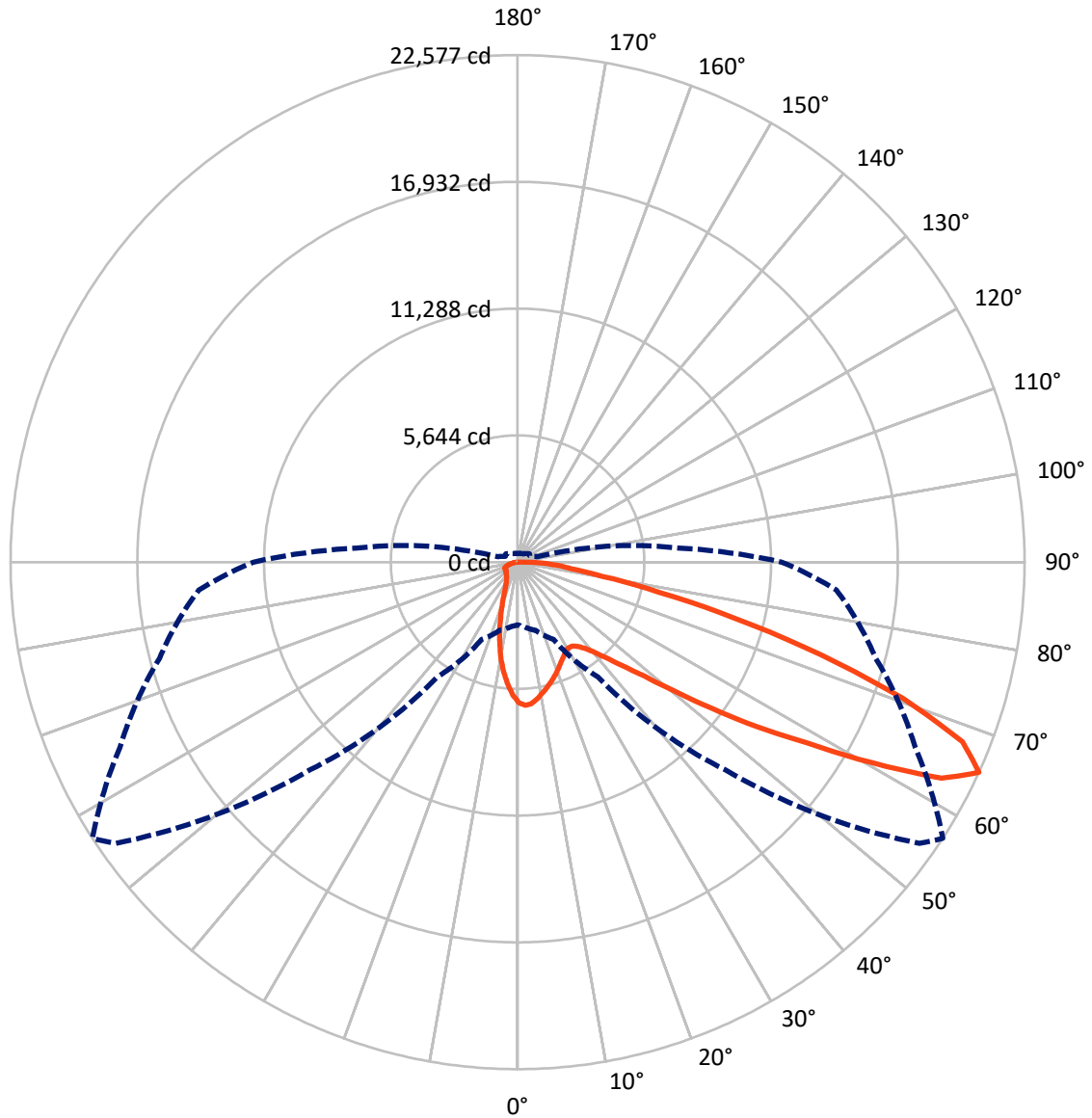
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	3488.9	0.0	3488.9
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	19261.0	0.0	19261.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	22749.9	0.0	22749.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.9	2.3
10°-20°	1127.5	5.0
20°-30°	1457.7	6.4
30°-40°	1961.6	8.6
40°-50°	3127.9	13.7
50°-60°	5524.6	24.3
60°-70°	6077.8	26.7
70°-80°	2542.5	11.2
80°-90°	406.3	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°	22749.9	100.0
0°-180°	22749.9	100.0

**Coefficient of Utilization**



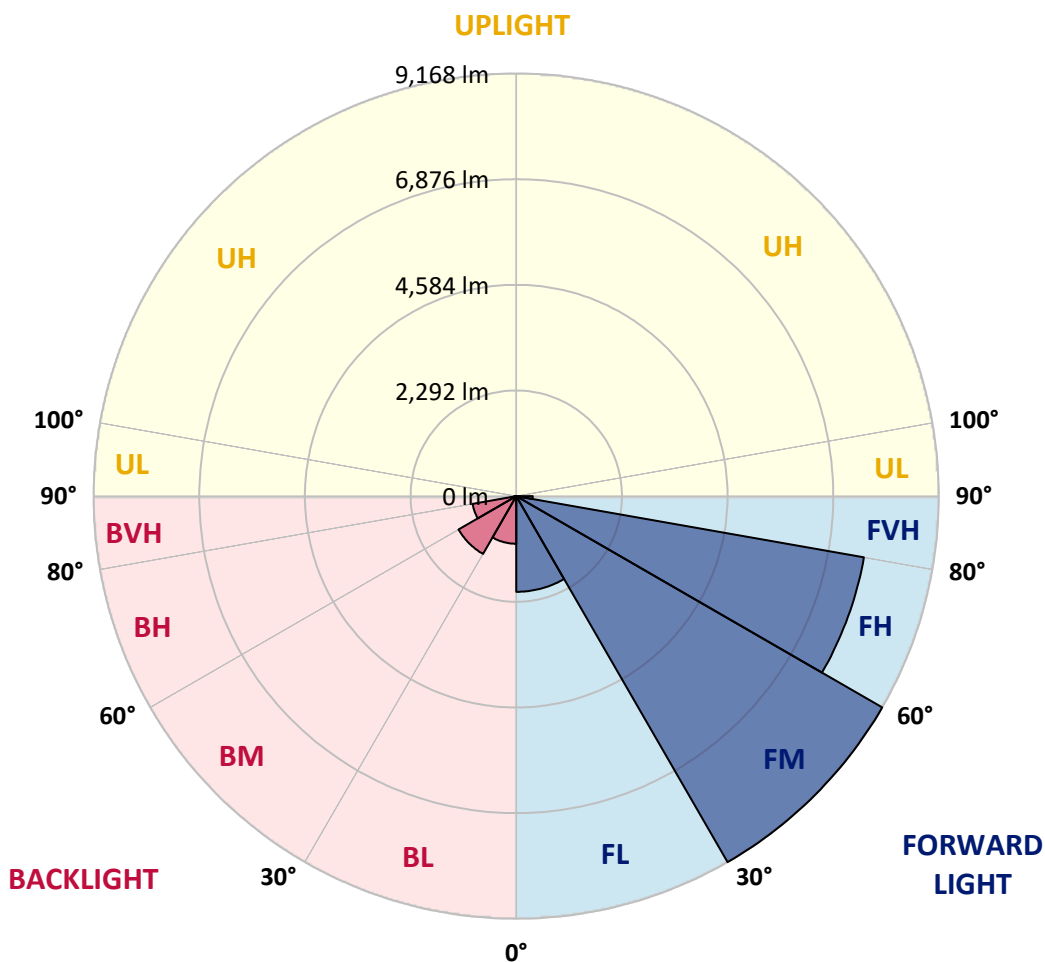
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2075.8	9.1			
FM (30°-60°)	9168.2	40.3			
FH (60°-80°)	7658.3	33.7			G4/12000
FVH (80°-90°)	358.7	1.6			G3/500
BL (0°-30°)	1033.2	4.5	B3/2500		
BM (30°-60°)	1446.0	6.4	B2/2500		
BH (60°-80°)	962.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	47.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9
2.5°	6424.8	6435.1	6435.1	6455.6	6386.4	6419.7	6414.6	6383.9	6394.1	6340.4	6286.6
5°	6243.1	6235.4	6276.4	6281.5	6335.3	6350.6	6363.4	6342.9	6348.1	6230.3	6179.1
7.5°	5777.2	5774.7	5843.8	5902.7	6015.3	6120.2	6189.4	6168.9	6197.0	6122.8	6002.5
10°	5224.3	5283.2	5354.9	5413.8	5621.1	5754.2	5933.4	5951.3	6058.8	6040.9	5823.3
12.5°	4809.7	4835.3	4889.0	5058.0	5247.4	5467.5	5723.5	5746.5	5851.5	5902.7	5713.2
15°	4469.2	4492.3	4561.4	4686.8	4899.3	5160.4	5485.4	5544.3	5754.2	5772.1	5569.9
17.5°	4220.9	4238.9	4284.9	4410.4	4584.4	4919.7	5226.9	5331.9	5608.3	5695.3	5421.4
20°	4123.7	4085.3	4110.9	4190.2	4364.3	4622.8	5019.6	5111.7	5465.0	5636.5	5280.7
22.5°	4080.2	4046.9	4062.2	4057.1	4195.3	4379.6	4796.9	4894.1	5329.3	5567.3	5155.2
25°	4113.4	4113.4	4098.1	4085.3	4100.6	4220.9	4556.3	4707.3	5147.6	5508.5	5027.2
27.5°	4292.6	4223.5	4231.2	4177.4	4162.1	4162.1	4448.8	4538.3	5088.7	5475.2	4922.3
30°	4407.8	4441.1	4443.6	4364.3	4284.9	4141.6	4348.9	4436.0	5040.0	5516.2	4860.9
32.5°	4702.2	4686.8	4643.3	4627.9	4510.2	4348.9	4397.6	4456.4	5011.9	5608.3	4878.8
35°	4996.5	4988.9	4991.4	4983.7	4860.9	4622.8	4528.1	4607.5	5063.1	5769.6	4940.2
37.5°	5301.1	5321.6	5408.6	5408.6	5278.1	5019.6	4894.1	4871.1	5249.9	6033.2	5086.1
40°	5605.7	5656.9	5767.0	5941.1	5756.8	5516.2	5313.9	5278.1	5475.2	6386.4	5436.8
42.5°	5897.5	5982.0	6199.6	6458.1	6396.7	6156.1	5887.3	5846.4	5938.5	6911.2	5925.7
45°	6271.3	6342.9	6685.9	7082.7	7167.2	6954.7	6639.9	6606.6	6601.5	7679.1	6598.9
47.5°	6839.5	6916.3	7259.3	7658.6	7919.7	7953.0	7599.7	7563.9	7441.0	8715.8	7584.4
50°	7551.1	7676.5	7965.8	8431.6	8810.5	9166.3	9066.5	8961.5	8720.9	9921.4	8833.5
52.5°	8070.7	8224.3	8615.9	9212.4	9880.4	10446.1	10804.5	10804.5	10251.6	11244.8	10336.1
55°	8209.0	8301.1	8795.1	9657.7	10801.9	12232.8	12982.8	12926.5	12074.1	12637.2	12084.3
57.5°	7658.6	7778.9	8377.9	9281.5	11285.7	13904.3	15145.7	15158.5	14065.5	14255.0	13809.6
60°	6143.3	6181.7	6888.2	8096.3	10819.8	15250.7	18099.6	18148.3	16330.9	15696.1	14687.6
62.5°	4246.5	4369.4	4901.8	5961.5	8964.1	15099.7	20948.6	21189.2	18145.7	16456.3	14825.8
65°	2795.2	2869.4	3153.5	3798.6	6240.5	13087.7	21834.2	22576.5	19533.1	16499.8	14247.3
67.5°	2027.3	2040.1	2124.6	2457.3	3750.0	9412.0	20321.5	21368.4	20052.7	16136.3	12890.6
70°	1638.2	1648.4	1679.2	1891.6	2421.5	5889.9	16574.1	18214.8	18493.8	14413.7	10382.1
72.5°	1331.0	1343.8	1382.2	1581.9	1996.6	3276.4	12120.2	14119.3	15043.4	10663.7	6900.9
75°	1046.9	1057.2	1149.3	1346.4	1876.3	2250.0	8040.0	9998.2	10123.6	6232.9	3230.3
77.5°	716.7	734.6	847.3	1141.6	1766.2	1968.4	5011.9	6404.4	5746.5	2439.4	1110.9
80°	455.6	481.2	547.8	865.2	1561.4	1878.8	3117.7	3824.2	2516.2	834.5	535.0
82.5°	268.8	294.4	360.9	560.6	1226.1	1743.2	2196.2	2393.3	1180.0	427.5	322.5
85°	148.5	166.4	217.6	337.9	719.3	1548.6	1758.5	1717.6	675.8	227.8	202.2
87.5°	48.6	56.3	79.4	135.7	296.9	729.5	1054.6	990.6	350.7	104.9	79.4
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°	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9	6255.9
2.5°	6250.8	6243.1	6127.9	6040.9	5892.4	5769.6	5720.9	5654.4	5651.8	5603.2	5590.4
5°	6099.8	6020.4	5843.8	5674.9	5411.2	5234.6	5073.3	4960.7	4914.6	4814.8	4791.8
7.5°	5905.2	5800.3	5529.0	5211.5	4901.8	4625.4	4374.5	4123.7	3982.9	3934.3	3880.5
10°	5703.0	5518.7	5116.8	4761.0	4328.5	3903.5	3509.3	3156.1	2964.1	2828.5	2769.6
12.5°	5541.7	5296.0	4784.1	4251.7	3680.8	3112.6	2654.4	2283.3	2065.7	1963.3	1917.2
15°	5360.0	5034.9	4420.6	3747.4	3035.8	2390.8	1942.8	1651.0	1564.0	1515.3	1507.7
17.5°	5168.0	4791.8	4026.4	3250.8	2406.1	1799.5	1510.2	1392.5	1354.1	1333.6	1323.4
20°	4988.9	4574.2	3622.0	2697.9	1883.9	1443.7	1308.0	1246.6	1244.0	1254.3	1251.7
22.5°	4735.4	4290.1	3222.7	2186.0	1505.1	1256.8	1169.8	1154.4	1169.8	1182.6	1187.7
25°	4592.1	4057.1	2777.3	1735.5	1244.0	1116.0	1087.9	1082.8	1105.8	1121.1	1118.6
27.5°	4443.6	3816.5	2362.6	1389.9	1090.4	1016.2	1011.1	1016.2	1039.2	1062.3	1059.7
30°	4328.5	3624.5	1973.5	1162.1	972.7	944.5	939.4	944.5	957.3	959.9	959.9
32.5°	4233.7	3396.7	1643.3	1008.5	901.0	878.0	883.1	880.5	883.1	885.7	888.2
35°	4177.4	3261.1	1372.0	913.8	842.1	824.2	821.7	814.0	816.5	819.1	816.5
37.5°	4297.7	3194.5	1157.0	847.3	801.2	785.8	780.7	775.6	767.9	767.9	767.9
40°	4479.5	3158.7	1026.4	803.7	770.5	752.6	737.2	732.1	732.1	734.6	737.2
42.5°	4840.4	3217.5	936.8	770.5	732.1	711.6	696.2	698.8	706.5	714.2	709.0
45°	5362.6	3396.7	895.9	744.9	709.0	680.9	670.6	668.1	675.8	688.6	698.8
47.5°	6046.0	3675.7	880.5	721.8	693.7	655.3	642.5	650.2	660.4	678.3	670.6
50°	7164.6	4302.9	893.3	701.4	670.6	642.5	627.1	619.4	627.1	639.9	645.0
52.5°	8626.2	5441.9	942.0	691.1	655.3	632.2	606.6	593.9	601.5	611.8	611.8
55°	10374.5	6998.2	1077.6	678.3	629.7	616.9	588.7	563.1	568.3	568.3	565.7
57.5°	11915.4	8173.1	1238.9	660.4	614.3	596.4	560.6	529.9	524.7	527.3	529.9
60°	12606.5	8485.4	1315.7	655.3	614.3	570.8	522.2	491.5	483.8	478.7	478.7
62.5°	12486.2	7945.3	1159.5	632.2	629.7	550.3	486.3	453.1	442.8	432.6	435.1
65°	11759.3	7174.8	913.8	601.5	632.2	537.5	450.5	417.2	399.3	386.5	384.0
67.5°	10430.8	6125.4	724.4	578.5	606.6	514.5	419.8	381.4	366.0	353.2	348.1
70°	8160.3	4802.0	629.7	547.8	545.2	458.2	384.0	350.7	327.6	312.3	312.3
72.5°	5290.9	3035.8	540.1	486.3	471.0	384.0	332.8	312.3	294.4	281.6	281.6
75°	2395.9	1410.4	435.1	407.0	384.0	307.2	281.6	271.3	256.0	243.2	243.2
77.5°	860.1	601.5	325.1	320.0	286.7	238.1	227.8	220.1	209.9	197.1	197.1
80°	481.2	381.4	243.2	232.9	199.7	176.6	163.8	163.8	158.7	151.0	148.5
82.5°	304.6	248.3	179.2	156.1	130.5	117.7	112.6	110.1	107.5	97.3	94.7
85°	192.0	168.9	117.7	92.1	76.8	58.9	56.3	53.8	48.6	43.5	43.5
87.5°	87.0	97.3	46.1	28.2	20.5	12.8	7.7	2.6	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)