

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: P480670

Luminaire Tested: **IFLD-S-SA6D-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480670  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

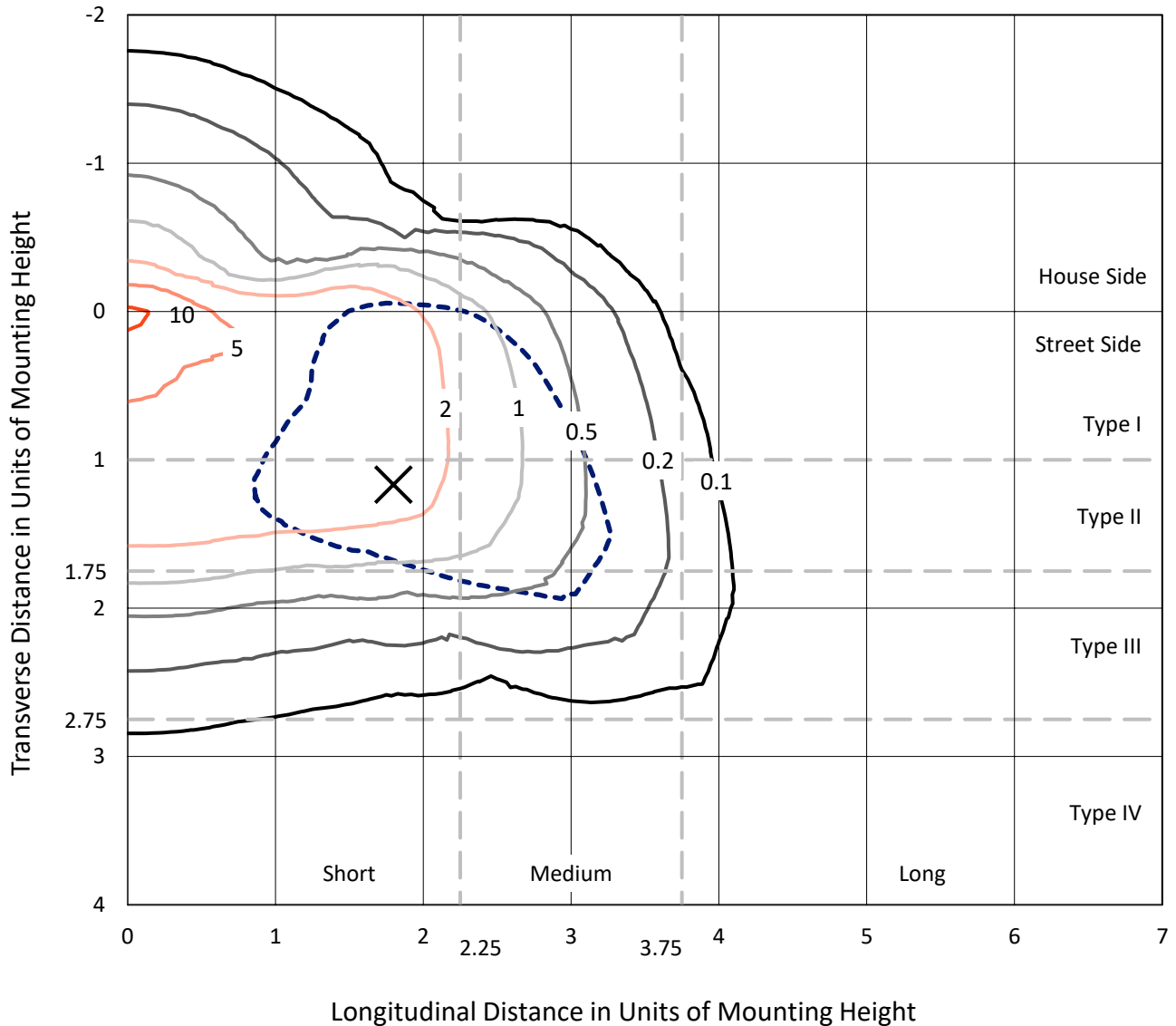
Lumens per Lamp: N/A  
Luminaire Lumens: 35848.3 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

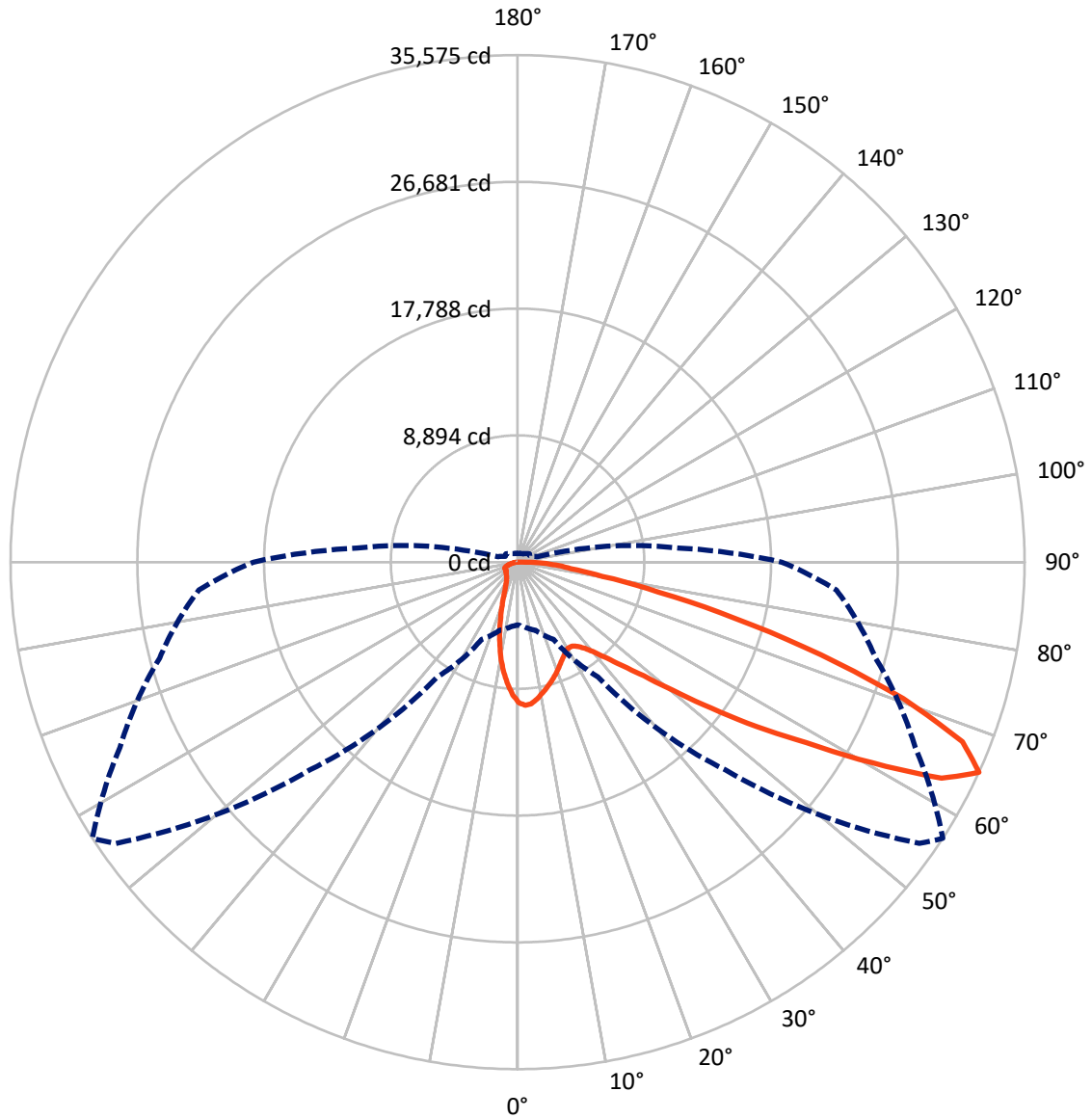
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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	5497.7	0.0	5497.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	30350.6	0.0	30350.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	35848.3	0.0	35848.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.5	2.3
10°-20°	1776.6	5.0
20°-30°	2297.0	6.4
30°-40°	3091.0	8.6
40°-50°	4928.8	13.7
50°-60°	8705.5	24.3
60°-70°	9577.2	26.7
70°-80°	4006.3	11.2
80°-90°	640.3	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°	35848.3	100.0
0°-180°	35848.3	100.0

**Coefficient of Utilization**



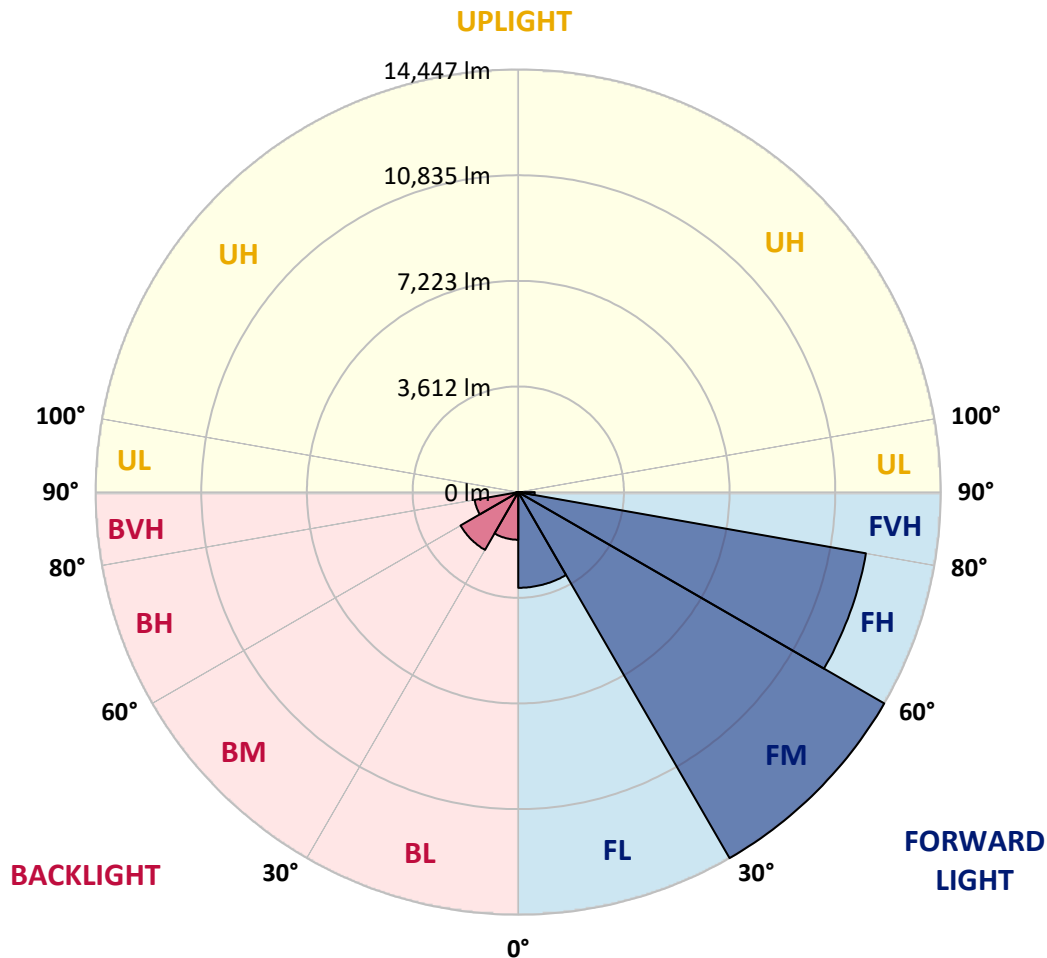
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3271.0	9.1			
FM (30°-60°)	14446.8	40.3			
FH (60°-80°)	12067.6	33.7			G5
FVH (80°-90°)	565.2	1.6			G4/750
BL (0°-30°)	1628.1	4.5	B3/2500		
BM (30°-60°)	2278.5	6.4	B2/2500		
BH (60°-80°)	1515.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	75.1	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8
2.5°	10124.0	10140.1	10140.1	10172.4	10063.5	10115.9	10107.9	10059.5	10075.6	9990.9	9906.2
5°	9837.6	9825.5	9890.0	9898.1	9982.8	10007.0	10027.2	9994.9	10003.0	9817.4	9736.8
7.5°	9103.5	9099.5	9208.4	9301.2	9478.6	9644.0	9752.9	9720.6	9765.0	9648.0	9458.5
10°	8232.3	8325.1	8438.0	8530.8	8857.5	9067.2	9349.6	9377.8	9547.2	9519.0	9176.1
12.5°	7578.9	7619.2	7703.9	7970.1	8268.6	8615.5	9018.8	9055.1	9220.5	9301.2	9002.7
15°	7042.4	7078.7	7187.6	7385.3	7720.0	8131.5	8643.7	8736.5	9067.2	9095.5	8776.8
17.5°	6651.2	6679.4	6752.0	6949.7	7223.9	7752.3	8236.3	8401.7	8837.3	8974.5	8542.9
20°	6497.9	6437.4	6477.7	6602.8	6877.1	7284.4	7909.6	8054.8	8611.4	8881.7	8321.0
22.5°	6429.3	6376.9	6401.1	6393.0	6610.8	6901.3	7558.7	7712.0	8397.7	8772.8	8123.4
25°	6481.8	6481.8	6457.6	6437.4	6461.6	6651.2	7179.6	7417.5	8111.3	8680.0	7921.7
27.5°	6764.1	6655.2	6667.3	6582.6	6558.4	6558.4	7010.2	7151.3	8018.5	8627.6	7756.3
30°	6945.6	6998.1	7002.1	6877.1	6752.0	6526.1	6852.9	6990.0	7941.9	8692.1	7659.5
32.5°	7409.5	7385.3	7316.7	7292.5	7107.0	6852.9	6929.5	7022.3	7897.5	8837.3	7687.8
35°	7873.3	7861.2	7865.2	7853.1	7659.5	7284.4	7135.2	7260.2	7978.2	9091.4	7784.6
37.5°	8353.3	8385.6	8522.7	8522.7	8317.0	7909.6	7712.0	7675.7	8272.6	9506.9	8014.5
40°	8833.3	8913.9	9087.4	9361.7	9071.3	8692.1	8373.5	8317.0	8627.6	10063.5	8567.1
42.5°	9293.1	9426.2	9769.0	10176.4	10079.6	9700.5	9277.0	9212.4	9357.6	10890.3	9337.5
45°	9882.0	9994.9	10535.4	11160.6	11293.7	10958.9	10462.8	10410.4	10402.3	12100.4	10398.3
47.5°	10777.4	10898.4	11438.9	12068.1	12479.5	12532.0	11975.3	11918.9	11725.3	13733.9	11951.1
50°	11898.7	12096.3	12552.1	13286.2	13883.2	14443.8	14286.5	14121.1	13742.0	15633.7	13919.5
52.5°	12717.5	12959.5	13576.6	14516.4	15569.2	16460.6	17025.2	17025.2	16154.0	17719.0	16287.1
55°	12935.3	13080.5	13859.0	15218.2	17021.2	19275.9	20457.7	20369.0	19025.8	19913.2	19042.0
57.5°	12068.1	12257.7	13201.5	14625.3	17783.5	21909.8	23866.0	23886.2	22163.9	22462.3	21760.5
60°	9680.3	9740.8	10854.0	12757.8	17049.4	24031.4	28520.6	28597.2	25733.5	24733.2	23144.0
62.5°	6691.5	6885.1	7724.1	9393.9	14125.2	23793.4	33009.8	33389.0	28593.2	25931.1	23361.8
65°	4404.5	4521.5	4969.2	5985.7	9833.6	20623.1	34405.4	35575.1	30779.3	25999.7	22450.2
67.5°	3194.5	3214.7	3347.8	3872.1	5909.0	14831.0	32021.6	33671.3	31598.1	25426.9	20312.5
70°	2581.4	2597.5	2646.0	2980.7	3815.7	9281.0	26116.7	28702.1	29141.8	22712.4	16359.7
72.5°	2097.4	2117.6	2178.1	2492.7	3146.1	5162.8	19098.4	22248.6	23704.7	16803.4	10874.2
75°	1649.7	1665.8	1811.0	2121.6	2956.5	3545.4	12669.1	15754.7	15952.3	9821.5	5090.2
77.5°	1129.4	1157.6	1335.1	1798.9	2783.1	3101.7	7897.5	10091.7	9055.1	3843.9	1750.5
80°	718.0	758.3	863.2	1363.3	2460.4	2960.6	4912.8	6026.0	3964.9	1314.9	843.0
82.5°	423.5	463.8	568.7	883.3	1932.0	2746.8	3460.7	3771.3	1859.4	673.6	508.2
85°	233.9	262.2	342.8	532.4	1133.4	2440.2	2771.0	2706.5	1064.8	359.0	318.6
87.5°	76.6	88.7	125.0	213.8	467.9	1149.5	1661.8	1560.9	552.6	165.4	125.0
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°	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8	9857.8
2.5°	9849.7	9837.6	9656.1	9519.0	9285.0	9091.4	9014.8	8909.9	8905.9	8829.2	8809.1
5°	9611.7	9486.7	9208.4	8942.2	8526.7	8248.4	7994.3	7816.8	7744.2	7586.9	7550.6
7.5°	9305.2	9139.8	8712.3	8212.1	7724.1	7288.5	6893.2	6497.9	6276.1	6199.4	6114.7
10°	8986.6	8696.1	8062.9	7502.2	6820.6	6151.0	5529.9	4973.3	4670.7	4457.0	4364.2
12.5°	8732.4	8345.2	7538.5	6699.6	5800.1	4904.7	4182.7	3597.8	3255.0	3093.7	3021.1
15°	8446.1	7933.8	6965.8	5905.0	4783.7	3767.3	3061.4	2601.6	2464.4	2387.8	2375.7
17.5°	8143.6	7550.6	6344.6	5122.5	3791.5	2835.5	2379.7	2194.2	2133.7	2101.4	2085.3
20°	7861.2	7207.8	5707.3	4251.3	2968.6	2274.9	2061.1	1964.3	1960.3	1976.4	1972.4
22.5°	7461.9	6760.1	5078.1	3444.6	2371.7	1980.4	1843.3	1819.1	1843.3	1863.5	1871.5
25°	7236.0	6393.0	4376.3	2734.7	1960.3	1758.6	1714.2	1706.2	1742.5	1766.7	1762.6
27.5°	7002.1	6013.9	3722.9	2190.2	1718.3	1601.3	1593.2	1601.3	1637.6	1673.9	1669.9
30°	6820.6	5711.4	3109.8	1831.2	1532.7	1488.3	1480.3	1488.3	1508.5	1512.5	1512.5
32.5°	6671.3	5352.4	2589.5	1589.2	1419.8	1383.5	1391.5	1387.5	1391.5	1395.6	1399.6
35°	6582.6	5138.6	2161.9	1439.9	1327.0	1298.8	1294.7	1282.6	1286.7	1290.7	1286.7
37.5°	6772.2	5033.8	1823.1	1335.1	1262.5	1238.3	1230.2	1222.1	1210.0	1210.0	1210.0
40°	7058.6	4977.3	1617.4	1266.5	1214.1	1185.8	1161.6	1153.6	1153.6	1157.6	1161.6
42.5°	7627.3	5070.1	1476.2	1214.1	1153.6	1121.3	1097.1	1101.1	1113.2	1125.3	1117.3
45°	8450.1	5352.4	1411.7	1173.7	1117.3	1072.9	1056.8	1052.7	1064.8	1085.0	1101.1
47.5°	9527.0	5792.1	1387.5	1137.4	1093.1	1032.6	1012.4	1024.5	1040.6	1068.9	1056.8
50°	11289.7	6780.2	1407.7	1105.2	1056.8	1012.4	988.2	976.1	988.2	1008.4	1016.4
52.5°	13592.8	8575.1	1484.3	1089.0	1032.6	996.3	955.9	935.8	947.9	964.0	964.0
55°	16347.6	11027.5	1698.1	1068.9	992.2	972.1	927.7	887.4	895.4	895.4	891.4
57.5°	18775.8	12878.8	1952.2	1040.6	968.0	939.8	883.3	834.9	826.9	830.9	834.9
60°	19864.8	13370.9	2073.2	1032.6	968.0	899.5	822.8	774.4	762.3	754.3	754.3
62.5°	19675.2	12519.9	1827.2	996.3	992.2	867.2	766.4	713.9	697.8	681.7	685.7
65°	18529.7	11305.8	1439.9	947.9	996.3	847.0	709.9	657.5	629.2	609.1	605.0
67.5°	16436.4	9652.1	1141.5	911.6	955.9	810.7	661.5	601.0	576.8	556.6	548.6
70°	12858.7	7566.8	992.2	863.2	859.1	722.0	605.0	552.6	516.3	492.1	492.1
72.5°	8337.2	4783.7	851.1	766.4	742.2	605.0	524.3	492.1	463.8	443.7	443.7
75°	3775.3	2222.4	685.7	641.3	605.0	484.0	443.7	427.5	403.3	383.2	383.2
77.5°	1355.2	947.9	512.2	504.2	451.7	375.1	359.0	346.9	330.7	310.6	310.6
80°	758.3	601.0	383.2	367.0	314.6	278.3	258.1	258.1	250.1	238.0	233.9
82.5°	480.0	391.2	282.3	246.0	205.7	185.5	177.5	173.4	169.4	153.3	149.2
85°	302.5	266.2	185.5	145.2	121.0	92.8	88.7	84.7	76.6	68.6	68.6
87.5°	137.1	153.3	72.6	44.4	32.3	20.2	12.1	4.0	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)