

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: P480162

Luminaire Tested: **IFLD-S-SA6C-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480162  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

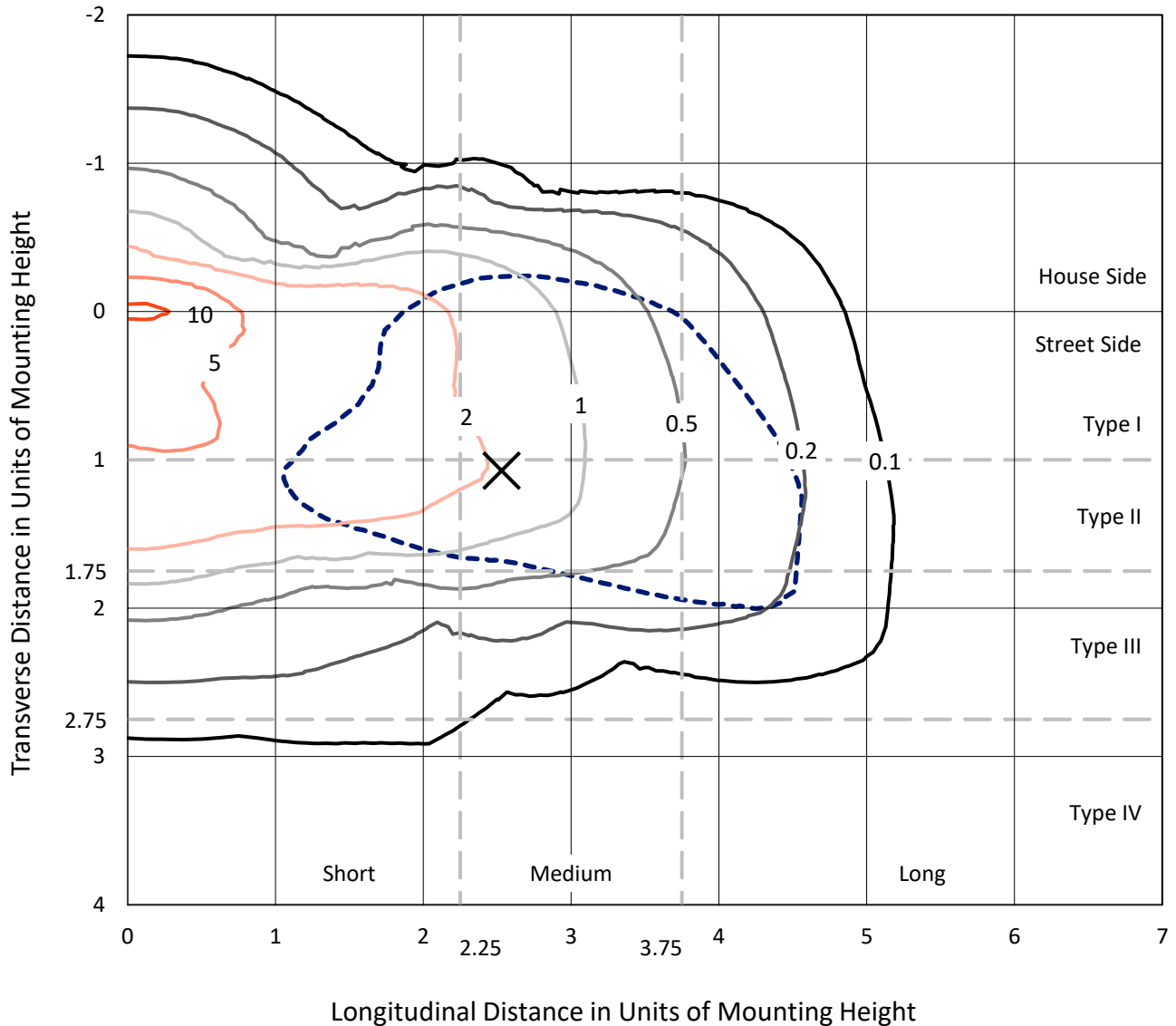
Lumens per Lamp: N/A  
Luminaire Lumens: 42378.3 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5  
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

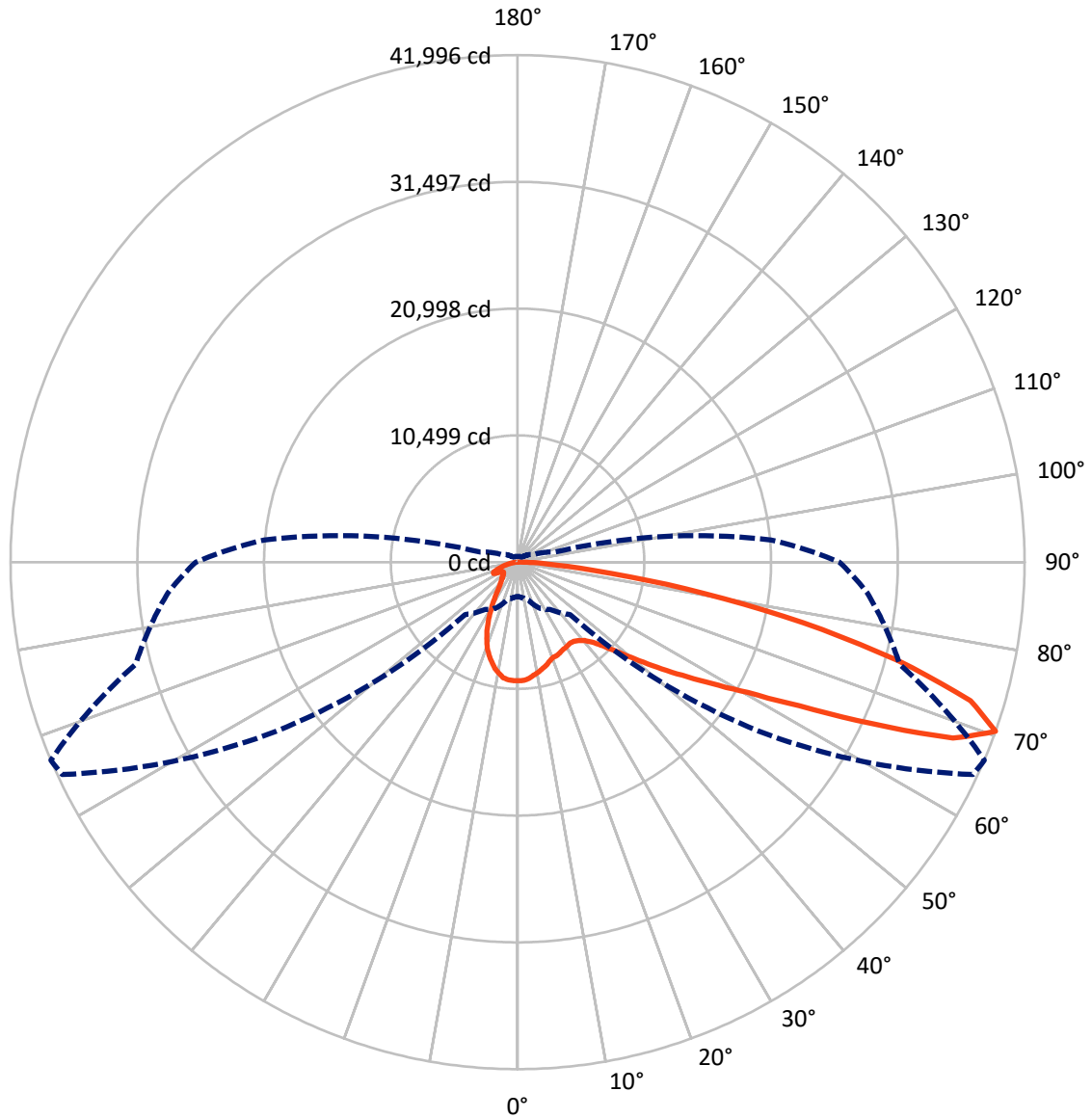
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8253.6	0.0	8253.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	34124.7	0.0	34124.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	42378.3	0.0	42378.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.0	2.0
10°-20°	2050.0	4.8
20°-30°	2768.4	6.5
30°-40°	3704.4	8.7
40°-50°	5447.3	12.9
50°-60°	8490.9	20.0
60°-70°	10459.4	24.7
70°-80°	7390.5	17.4
80°-90°	1211.3	2.9
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°	42378.3	100.0
0°-180°	42378.3	100.0

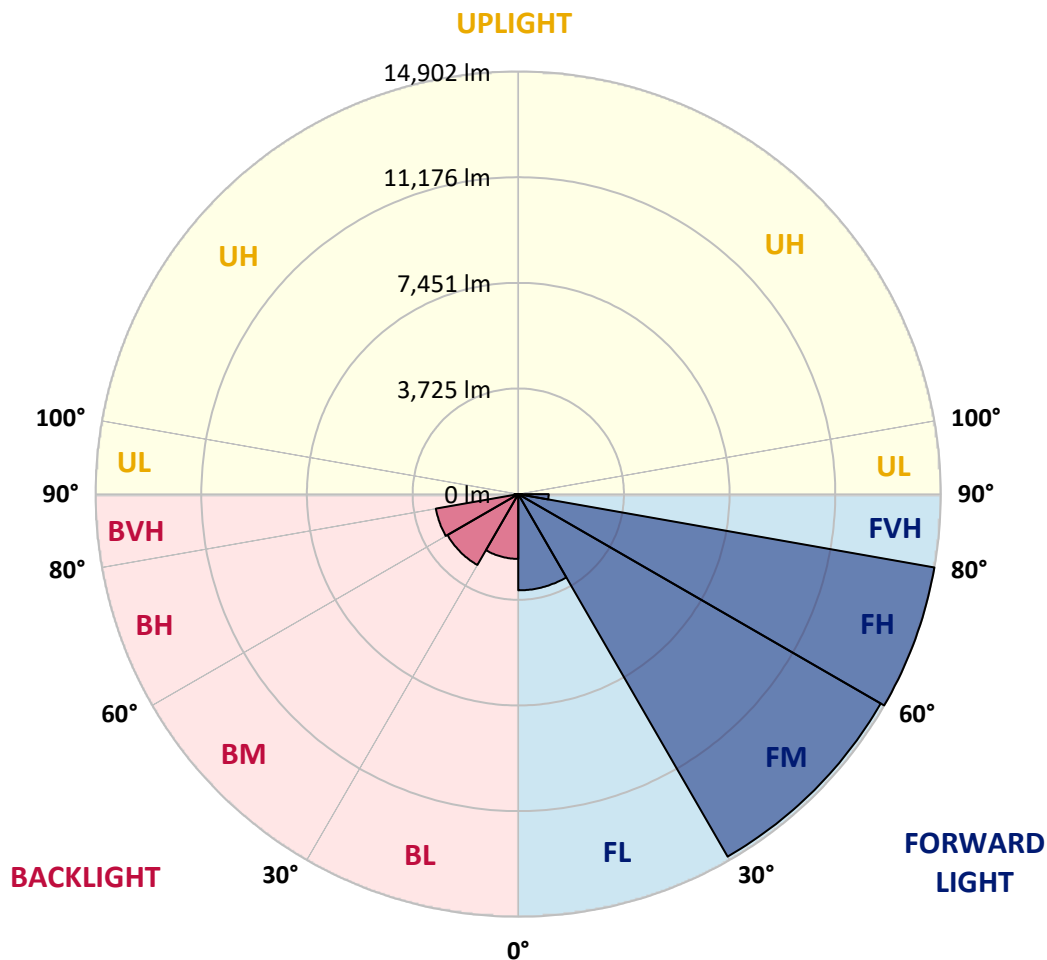


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3392.1	8.0			
FM (30°-60°)	14759.4	34.8			
FH (60°-80°)	14901.6	35.2			G5
FVH (80°-90°)	1071.6	2.5			G5
BL (0°-30°)	2282.4	5.4	B3/2500		
BM (30°-60°)	2883.2	6.8	B3/5000		
BH (60°-80°)	2948.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	139.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4
2.5°	9134.8	9238.1	9275.6	9331.9	9477.3	9585.2	9650.9	9726.0	9815.1	9890.2	9937.1
5°	8496.8	8553.1	8642.2	8703.2	8886.2	9177.1	9374.1	9693.1	9683.8	9801.1	9979.3
7.5°	7877.4	7933.7	7976.0	8098.0	8360.7	8623.4	8984.7	9500.8	9463.3	9735.4	10012.2
10°	7492.7	7450.5	7464.6	7671.0	7877.4	8173.0	8628.1	9153.6	9289.7	9711.9	10106.0
12.5°	7131.5	7084.5	7197.1	7328.5	7581.9	7849.3	8393.5	8867.4	9073.8	9627.5	10148.2
15°	6906.3	6873.4	7014.2	7070.5	7370.7	7689.8	8074.5	8651.6	8876.8	9524.2	10082.6
17.5°	6779.6	6807.7	6859.3	6981.3	7173.7	7445.8	7868.1	8506.1	8604.7	9397.6	10068.5
20°	6803.0	6835.9	6840.6	6892.2	7023.5	7234.7	7666.3	8351.3	8417.0	9374.1	10106.0
22.5°	6990.7	6943.8	6962.6	6929.7	6967.2	7131.5	7511.5	8144.9	8398.2	9177.1	10026.3
25°	7272.2	7206.5	7197.1	7084.5	7014.2	7061.1	7483.3	8093.3	8257.5	9116.1	10021.6
27.5°	7769.5	7671.0	7671.0	7502.1	7215.9	7140.8	7403.6	8008.8	8154.3	9059.8	9913.7
30°	8248.1	8248.1	8252.8	8013.5	7694.5	7323.8	7436.4	7976.0	8069.8	8890.9	9768.2
32.5°	8829.9	8815.8	8792.3	8675.0	8182.4	7628.8	7595.9	7933.7	7980.7	8834.6	9726.0
35°	9397.6	9360.0	9543.0	9439.8	8937.8	8224.6	7760.1	7952.5	8055.7	8750.1	9594.6
37.5°	9824.5	9848.0	10228.0	10293.7	9862.1	8900.2	8224.6	8140.2	8238.7	8872.1	9594.6
40°	10378.1	10472.0	10828.6	11049.1	10786.3	9791.7	8961.2	8454.5	8524.9	9144.2	9801.1
42.5°	11105.4	11185.1	11640.2	11926.4	11851.4	10927.1	9688.5	9111.4	9055.1	9599.3	10110.7
45°	12067.2	12081.2	12541.0	12935.1	13090.0	12114.1	10842.6	9941.8	9894.9	10382.8	10678.4
47.5°	13212.0	13197.9	13484.1	13906.3	14323.9	13531.0	12170.4	11203.9	11035.0	11504.2	11621.5
50°	14319.2	14258.2	14323.9	14863.5	15665.7	15304.5	13784.4	12747.5	12578.6	12836.6	13038.4
52.5°	14929.1	15004.2	14825.9	15539.1	17092.0	17401.7	15923.8	14591.3	14445.9	14572.6	14924.4
55°	14502.2	14657.0	14539.7	15215.3	17716.0	19958.7	18691.9	16726.1	16538.4	16491.5	17068.6
57.5°	12686.5	12968.0	12991.4	14061.2	17500.2	21938.6	22586.1	19245.5	18964.0	18485.5	19081.3
60°	9740.1	10021.6	10237.4	11504.2	15651.7	23120.9	27099.5	22830.0	21901.1	20662.5	21019.0
62.5°	6826.5	7018.9	7234.7	8013.5	12067.2	22426.6	31003.1	27878.4	26165.9	22956.7	23402.4
65°	4973.3	5123.4	5343.9	5803.7	7413.0	18555.9	32814.1	33874.4	32251.1	25875.0	25818.7
67.5°	3744.0	3837.8	4128.7	4865.3	5137.5	11461.9	30937.4	40208.3	38894.6	29117.0	27761.1
70°	2833.8	2913.6	3185.7	4194.4	4799.7	6146.2	24406.5	41620.5	41995.8	32753.1	29065.4
72.5°	1951.8	2040.9	2345.9	3495.4	4569.8	4874.7	15318.6	37810.8	39232.4	34249.8	27667.2
75°	1196.4	1257.4	1435.7	2650.8	4536.9	4766.8	8431.1	30984.3	32490.3	31645.8	24204.7
77.5°	844.5	839.8	872.7	1553.0	3931.7	4795.0	5198.5	22703.4	24167.2	23322.7	16425.8
80°	614.6	619.3	652.2	929.0	2669.6	4874.7	4095.9	15206.0	15642.3	12161.0	6479.3
82.5°	370.6	389.4	469.2	628.7	1604.6	4400.9	3786.2	8449.8	7905.6	3903.5	1782.9
85°	197.1	197.1	276.8	398.8	853.9	3284.2	3645.5	4020.8	3368.7	1210.5	661.5
87.5°	46.9	46.9	79.8	159.5	342.5	1571.7	2486.6	1599.9	1280.8	408.2	272.1
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°	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4
2.5°	9918.4	9862.1	9932.4	9791.7	9679.1	9683.8	9510.2	9500.8	9477.3	9355.3	9397.6
5°	10031.0	9984.0	9904.3	9749.5	9500.8	9252.1	9102.0	8909.6	8829.9	8787.6	8806.4
7.5°	10138.9	10054.4	9824.5	9608.7	9224.0	8754.8	8482.7	8224.6	7896.2	7858.7	7793.0
10°	10167.0	9988.7	9693.1	9233.4	8722.0	8201.2	7581.9	7103.3	6850.0	6652.9	6577.8
12.5°	10124.8	10049.7	9482.0	8890.9	8116.7	7300.4	6577.8	5902.2	5433.0	5189.1	5123.4
15°	10120.1	9988.7	9247.4	8370.1	7380.1	6315.1	5287.6	4475.9	3983.3	3781.5	3781.5
17.5°	10124.8	9810.4	8970.6	7844.6	6512.1	5071.8	3941.1	3274.8	3002.7	2974.6	2998.0
20°	10031.0	9679.1	8679.7	7225.3	5423.7	3809.7	2862.0	2589.8	2589.8	2627.4	2641.5
22.5°	9946.5	9482.0	8219.9	6460.5	4316.4	2758.7	2327.1	2247.3	2336.5	2402.2	2430.3
25°	9829.2	9317.8	7750.8	5667.6	3284.2	2223.9	2022.1	2040.9	2125.4	2242.7	2233.3
27.5°	9660.3	9031.6	7192.4	4748.0	2444.4	1918.9	1867.3	1876.7	1965.8	2017.5	2008.1
30°	9467.9	8740.7	6676.4	3833.2	1937.7	1759.4	1754.7	1778.2	1792.2	1820.4	1815.7
32.5°	9224.0	8356.0	6127.4	2979.3	1745.3	1670.3	1651.5	1637.4	1651.5	1646.8	1632.7
35°	9050.4	8149.6	5569.1	2270.8	1637.4	1590.5	1576.4	1553.0	1534.2	1506.1	1501.4
37.5°	9003.5	7943.1	4982.6	1853.2	1553.0	1529.5	1482.6	1440.4	1416.9	1402.8	1393.4
40°	8975.3	7807.1	4410.2	1628.0	1482.6	1459.1	1402.8	1346.5	1323.1	1309.0	1313.7
42.5°	9073.8	7732.0	3828.5	1515.4	1421.6	1379.4	1318.4	1252.7	1248.0	1238.6	1252.7
45°	9421.0	7825.8	3288.9	1435.7	1360.6	1290.2	1210.5	1177.6	1172.9	1163.6	1172.9
47.5°	10209.2	8060.4	2829.1	1384.1	1294.9	1233.9	1149.5	1102.6	1097.9	1093.2	1093.2
50°	11297.7	8783.0	2444.4	1323.1	1252.7	1168.2	1088.5	1036.9	1027.5	1008.7	1008.7
52.5°	13005.5	9998.1	2214.5	1290.2	1177.6	1107.3	1022.8	966.5	943.0	924.3	924.3
55°	14929.1	11504.2	2172.3	1233.9	1097.9	1032.2	957.1	900.8	877.4	853.9	844.5
57.5°	17120.2	13498.2	2472.6	1196.4	1041.6	957.1	872.7	821.1	802.3	778.8	769.4
60°	19161.1	15487.5	3406.2	1140.1	990.0	886.7	802.3	750.7	727.2	703.8	703.8
62.5°	21521.0	17950.6	4987.3	1140.1	943.0	811.7	727.2	689.7	675.6	652.2	647.5
65°	24312.6	20498.2	6141.5	1210.5	929.0	746.0	656.8	619.3	605.2	591.2	586.5
67.5°	26438.0	21962.1	5282.9	1398.1	990.0	689.7	586.5	563.0	553.6	539.6	530.2
70°	26663.2	21070.6	3185.7	1510.7	1051.0	633.4	525.5	502.0	502.0	487.9	478.6
72.5°	24641.1	18696.6	2144.1	1346.5	952.4	567.7	464.5	445.7	436.3	426.9	422.3
75°	20620.2	15858.1	1693.7	1074.4	731.9	469.2	403.5	384.7	370.6	366.0	356.6
77.5°	13850.0	10307.8	1252.7	839.8	539.6	380.0	337.8	319.0	305.0	300.3	286.2
80°	5320.4	3927.0	807.0	609.9	380.0	300.3	267.4	248.7	239.3	225.2	215.8
82.5°	1567.0	1271.5	450.4	375.3	244.0	206.4	192.4	178.3	164.2	150.1	145.4
85°	647.5	581.8	276.8	197.1	150.1	122.0	112.6	98.5	84.5	75.1	65.7
87.5°	300.3	248.7	126.7	75.1	51.6	28.2	14.1	4.7	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)