

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: P480481

Luminaire Tested: **IFLD-M-SA4E-735-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480481  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-735-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

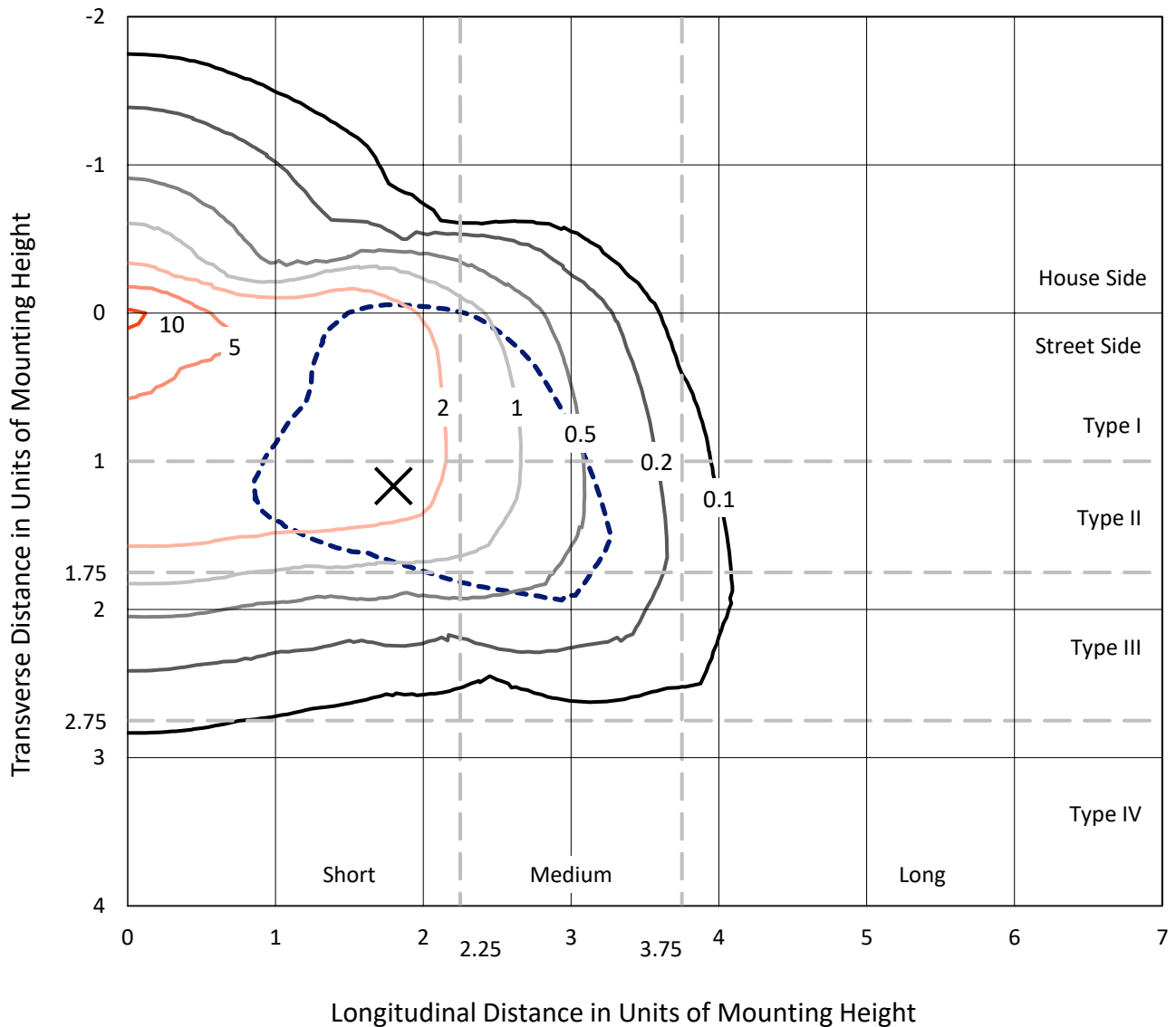
Lumens per Lamp: N/A  
Luminaire Lumens: 35234.6 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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

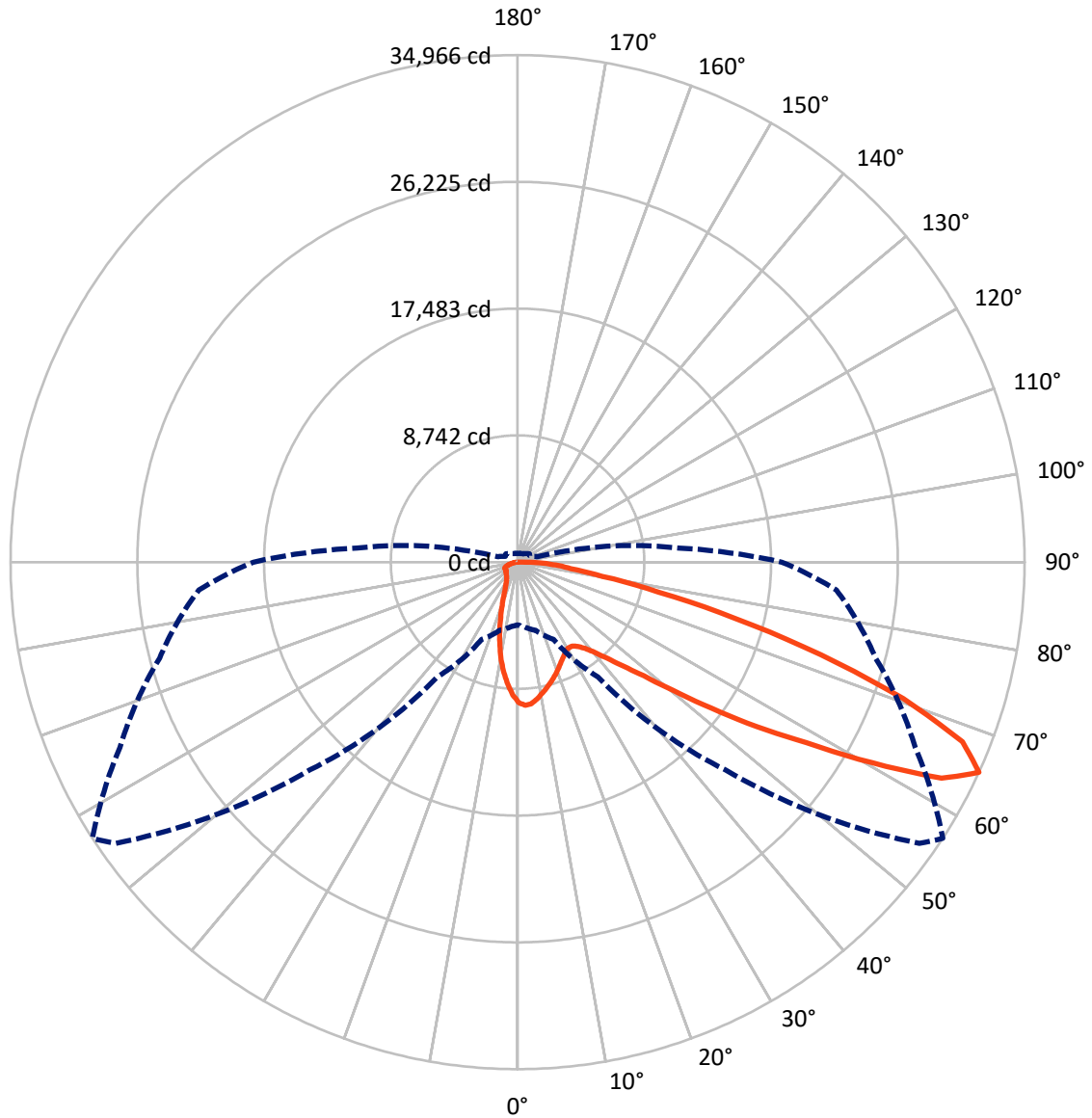
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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	5403.6	0.0	5403.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	29831.0	0.0	29831.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	35234.6	0.0	35234.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	811.4	2.3
10°-20°	1746.2	5.0
20°-30°	2257.7	6.4
30°-40°	3038.1	8.6
40°-50°	4844.4	13.7
50°-60°	8556.4	24.3
60°-70°	9413.2	26.7
70°-80°	3937.7	11.2
80°-90°	629.3	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°	35234.6	100.0
0°-180°	35234.6	100.0

**Coefficient of Utilization**



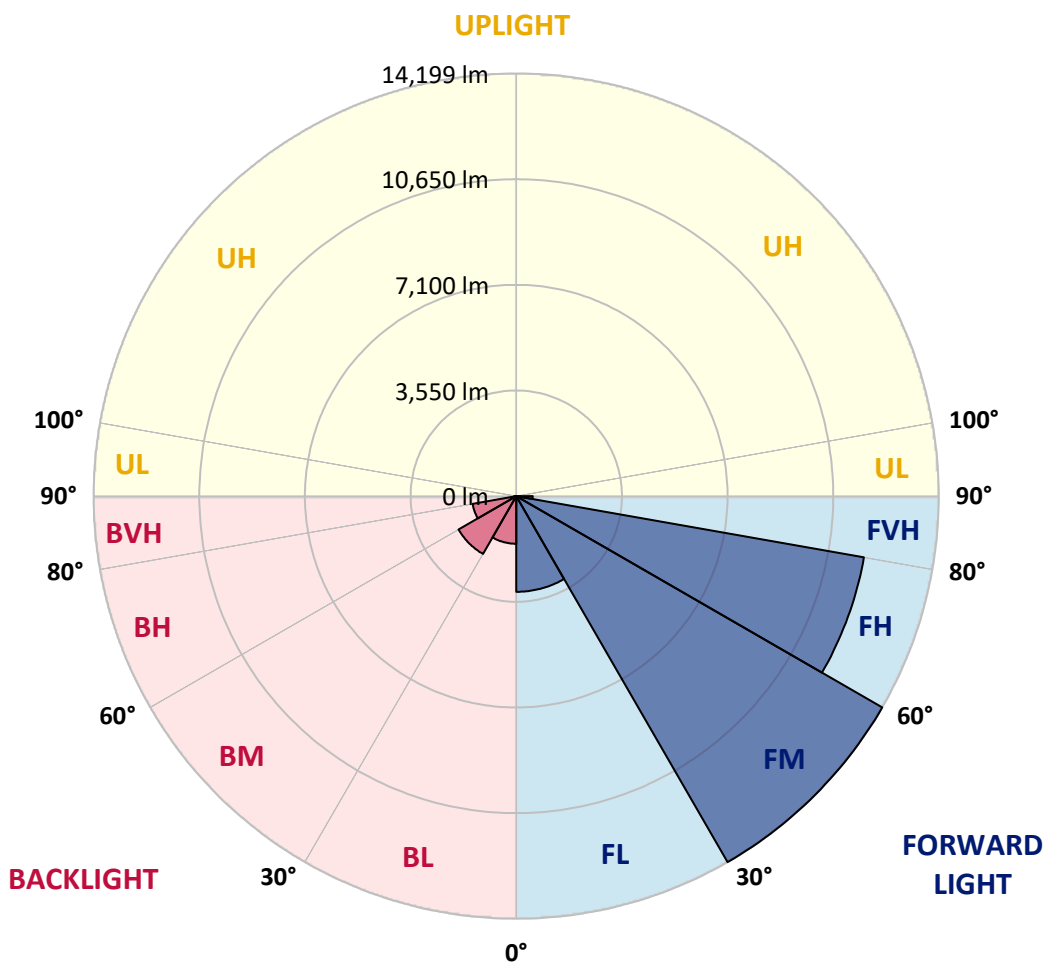
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3215.0	9.1			
FM (30°-60°)	14199.5	40.3			
FH (60°-80°)	11861.0	33.7			G4/12000
FVH (80°-90°)	555.5	1.6			G4/750
BL (0°-30°)	1600.3	4.5	B3/2500		
BM (30°-60°)	2239.5	6.4	B2/2500		
BH (60°-80°)	1489.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	73.8	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°	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0
2.5°	9950.7	9966.5	9966.5	9998.2	9891.2	9942.7	9934.8	9887.2	9903.1	9819.8	9736.6
5°	9669.2	9657.3	9720.7	9728.7	9811.9	9835.7	9855.5	9823.8	9831.7	9649.4	9570.1
7.5°	8947.7	8943.7	9050.7	9141.9	9316.4	9478.9	9585.9	9554.2	9597.8	9482.9	9296.5
10°	8091.4	8182.5	8293.5	8384.7	8705.8	8912.0	9189.5	9217.2	9383.8	9356.0	9019.0
12.5°	7449.1	7488.8	7572.0	7833.7	8127.0	8468.0	8864.4	8900.1	9062.6	9141.9	8848.6
15°	6921.9	6957.5	7064.6	7258.8	7587.9	7992.2	8495.7	8586.9	8912.0	8939.7	8626.6
17.5°	6537.3	6565.1	6636.4	6830.7	7100.3	7619.6	8095.3	8257.9	8686.0	8820.8	8396.6
20°	6386.7	6327.2	6366.8	6489.7	6759.3	7159.7	7774.2	7916.9	8464.0	8729.6	8178.6
22.5°	6319.3	6267.7	6291.5	6283.6	6497.7	6783.1	7429.3	7579.9	8253.9	8622.6	7984.3
25°	6370.8	6370.8	6347.0	6327.2	6351.0	6537.3	7056.6	7290.5	7972.4	8531.4	7786.1
27.5°	6648.3	6541.3	6553.2	6469.9	6446.1	6446.1	6890.1	7028.9	7881.2	8479.9	7623.6
30°	6826.7	6878.2	6882.2	6759.3	6636.4	6414.4	6735.5	6870.3	7805.9	8543.3	7528.4
32.5°	7282.6	7258.8	7191.4	7167.6	6985.3	6735.5	6810.9	6902.0	7762.3	8686.0	7556.2
35°	7738.5	7726.6	7730.6	7718.7	7528.4	7159.7	7013.0	7135.9	7841.6	8935.8	7651.3
37.5°	8210.3	8242.0	8376.8	8376.8	8174.6	7774.2	7579.9	7544.3	8131.0	9344.1	7877.3
40°	8682.1	8761.3	8931.8	9201.4	8916.0	8543.3	8230.1	8174.6	8479.9	9891.2	8420.4
42.5°	9134.0	9264.8	9601.8	10002.2	9907.1	9534.4	9118.1	9054.7	9197.4	10703.9	9177.6
45°	9712.8	9823.8	10355.0	10969.5	11100.3	10771.3	10283.7	10232.1	10224.2	11893.2	10220.2
47.5°	10592.9	10711.8	11243.1	11861.5	12265.9	12317.4	11770.3	11714.8	11524.5	13498.8	11746.5
50°	11695.0	11889.3	12337.2	13058.8	13645.5	14196.5	14041.9	13879.4	13506.7	15366.0	13681.2
52.5°	12499.8	12737.6	13344.2	14267.9	15302.6	16178.7	16733.8	16733.8	15877.5	17415.6	16008.3
55°	12713.9	12856.6	13621.7	14957.7	16729.8	18945.9	20107.5	20020.3	18700.1	19572.3	18716.0
57.5°	11861.5	12047.8	12975.5	14374.9	17479.1	21534.7	23457.4	23477.2	21784.4	22077.8	21388.0
60°	9514.6	9574.0	10668.2	12539.4	16757.6	23619.9	28032.3	28107.6	25292.9	24309.7	22747.8
62.5°	6577.0	6767.2	7591.8	9233.1	13883.4	23386.0	32444.7	32817.4	28103.7	25487.2	22961.8
65°	4329.1	4444.1	4884.2	5883.2	9665.2	20270.0	33816.4	34966.1	30252.4	25554.6	22065.9
67.5°	3139.8	3159.6	3290.5	3805.8	5807.9	14577.1	31473.4	33094.9	31057.2	24991.6	19964.8
70°	2537.2	2553.1	2600.7	2929.7	3750.3	9122.1	25669.5	28210.7	28642.8	22323.6	16079.6
72.5°	2061.5	2081.3	2140.8	2450.0	3092.2	5074.4	18771.5	21867.7	23298.8	16515.7	10688.0
75°	1621.4	1637.3	1780.0	2085.3	2905.9	3484.7	12452.2	15485.0	15679.2	9653.3	5003.1
77.5°	1110.0	1137.8	1312.2	1768.1	2735.4	3048.6	7762.3	9918.9	8900.1	3778.1	1720.6
80°	705.7	745.3	848.4	1340.0	2418.3	2909.9	4828.6	5922.8	3897.0	1292.4	828.6
82.5°	416.3	455.9	559.0	868.2	1899.0	2699.8	3401.5	3706.7	1827.6	662.1	499.5
85°	229.9	257.7	337.0	523.3	1114.0	2398.5	2723.5	2660.1	1046.6	352.8	313.2
87.5°	75.3	87.2	122.9	210.1	459.9	1129.9	1633.3	1534.2	543.1	162.5	122.9
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°	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0
2.5°	9681.1	9669.2	9490.8	9356.0	9126.1	8935.8	8860.5	8757.4	8753.4	8678.1	8658.3
5°	9447.2	9324.3	9050.7	8789.1	8380.8	8107.2	7857.5	7683.0	7611.7	7457.1	7421.4
7.5°	9145.9	8983.3	8563.1	8071.5	7591.8	7163.7	6775.2	6386.7	6168.6	6093.3	6010.0
10°	8832.7	8547.3	7924.9	7373.8	6703.8	6045.7	5435.2	4888.1	4590.8	4380.7	4289.5
12.5°	8582.9	8202.4	7409.5	6584.9	5700.8	4820.7	4111.1	3536.3	3199.3	3040.7	2969.3
15°	8301.5	7798.0	6846.5	5803.9	4701.8	3702.8	3009.0	2557.0	2422.3	2346.9	2335.0
17.5°	8004.1	7421.4	6236.0	5034.8	3726.5	2787.0	2339.0	2156.6	2097.2	2065.5	2049.6
20°	7726.6	7084.4	5609.6	4178.5	2917.8	2235.9	2025.8	1930.7	1926.7	1942.6	1938.6
22.5°	7334.2	6644.3	4991.2	3385.6	2331.1	1946.5	1811.7	1787.9	1811.7	1831.6	1839.5
25°	7112.1	6283.6	4301.4	2687.9	1926.7	1728.5	1684.9	1676.9	1712.6	1736.4	1732.4
27.5°	6882.2	5910.9	3659.1	2152.7	1688.8	1573.9	1565.9	1573.9	1609.5	1645.2	1641.3
30°	6703.8	5613.6	3056.6	1799.8	1506.5	1462.9	1454.9	1462.9	1482.7	1486.7	1486.7
32.5°	6557.1	5260.8	2545.1	1562.0	1395.5	1359.8	1367.7	1363.8	1367.7	1371.7	1375.6
35°	6469.9	5050.7	2124.9	1415.3	1304.3	1276.5	1272.6	1260.7	1264.6	1268.6	1264.6
37.5°	6656.2	4947.6	1791.9	1312.2	1240.9	1217.1	1209.1	1201.2	1189.3	1189.3	1189.3
40°	6937.7	4892.1	1589.7	1244.8	1193.3	1165.5	1141.7	1133.8	1133.8	1137.8	1141.7
42.5°	7496.7	4983.3	1451.0	1193.3	1133.8	1102.1	1078.3	1082.3	1094.2	1106.1	1098.1
45°	8305.4	5260.8	1387.5	1153.6	1098.1	1054.5	1038.7	1034.7	1046.6	1066.4	1082.3
47.5°	9363.9	5692.9	1363.8	1118.0	1074.4	1014.9	995.1	1007.0	1022.8	1050.6	1038.7
50°	11096.4	6664.2	1383.6	1086.2	1038.7	995.1	971.3	959.4	971.3	991.1	999.0
52.5°	13360.1	8428.3	1458.9	1070.4	1014.9	979.2	939.6	919.7	931.6	947.5	947.5
55°	16067.7	10838.7	1669.0	1050.6	975.2	955.4	911.8	872.2	880.1	880.1	876.1
57.5°	18454.3	12658.4	1918.8	1022.8	951.5	923.7	868.2	820.6	812.7	816.7	820.6
60°	19524.7	13142.0	2037.7	1014.9	951.5	884.1	808.7	761.2	749.3	741.3	741.3
62.5°	19338.4	12305.5	1795.9	979.2	975.2	852.3	753.2	701.7	685.8	670.0	673.9
65°	18212.5	11112.2	1415.3	931.6	979.2	832.5	697.7	646.2	618.4	598.6	594.7
67.5°	16155.0	9486.8	1121.9	896.0	939.6	796.8	650.2	590.7	566.9	547.1	539.2
70°	12638.5	7437.2	975.2	848.4	844.4	709.6	594.7	543.1	507.4	483.7	483.7
72.5°	8194.4	4701.8	836.5	753.2	729.5	594.7	515.4	483.7	455.9	436.1	436.1
75°	3710.7	2184.4	673.9	630.3	594.7	475.7	436.1	420.2	396.4	376.6	376.6
77.5°	1332.0	931.6	503.5	495.6	444.0	368.7	352.8	340.9	325.1	305.3	305.3
80°	745.3	590.7	376.6	360.8	309.2	273.5	253.7	253.7	245.8	233.9	229.9
82.5°	471.8	384.5	277.5	241.8	202.2	182.4	174.4	170.5	166.5	150.6	146.7
85°	297.3	261.7	182.4	142.7	118.9	91.2	87.2	83.3	75.3	67.4	67.4
87.5°	134.8	150.6	71.4	43.6	31.7	19.8	11.9	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)