

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: P480520

Luminaire Tested: **IFLD-M-SA4E-740-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480520  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-740-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

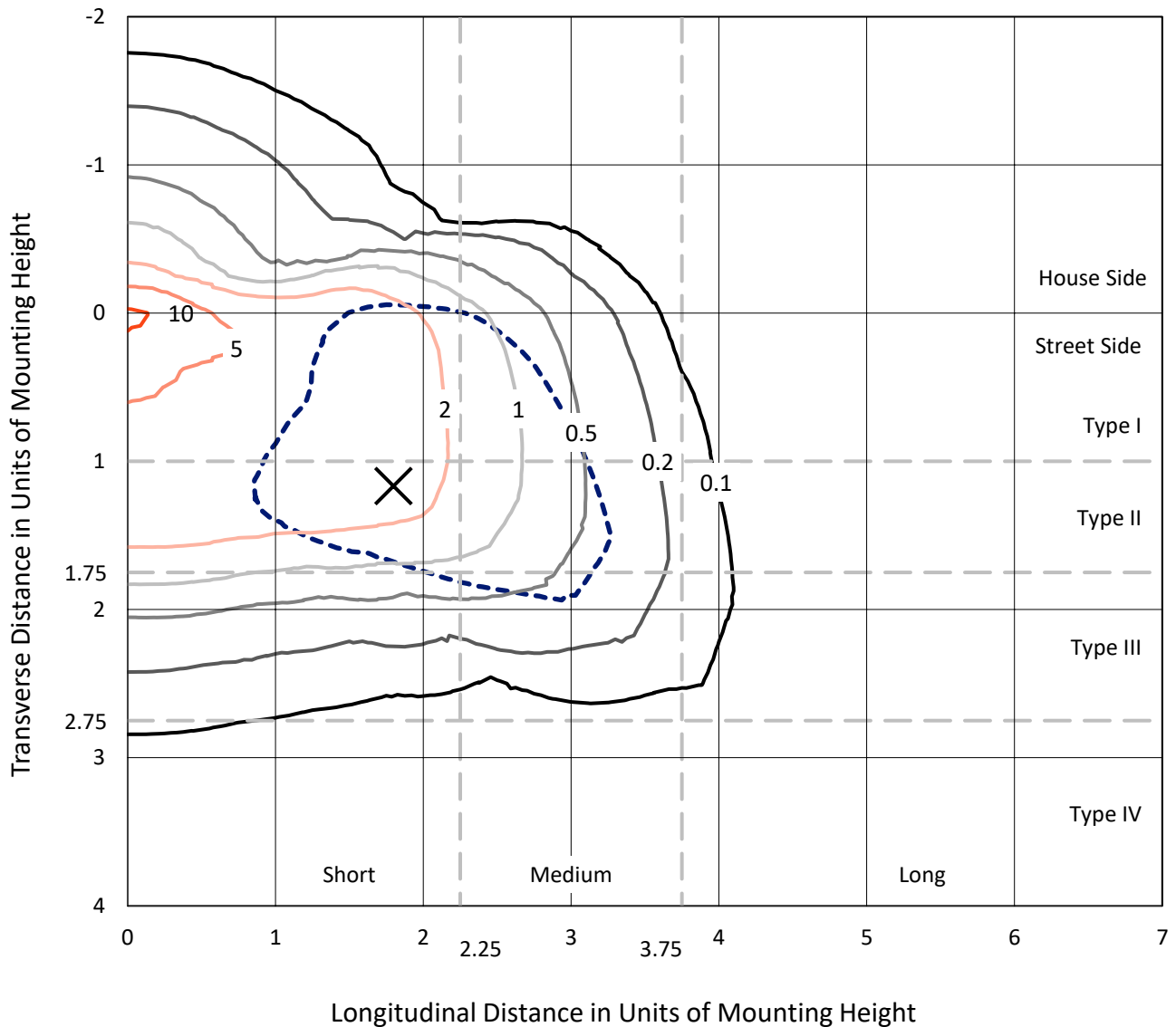
Lumens per Lamp: N/A  
Luminaire Lumens: 35724 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

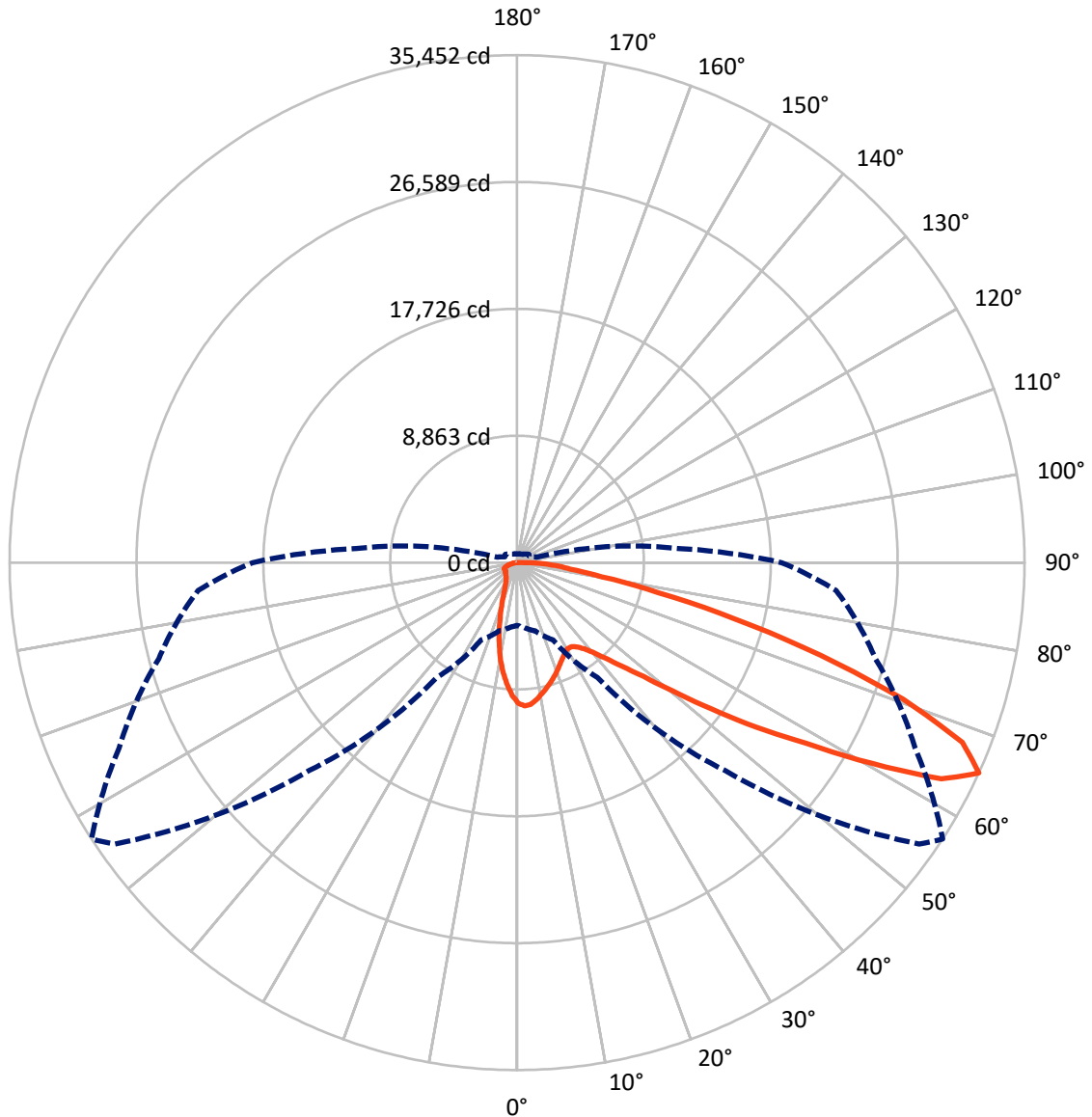
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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	5478.6	0.0	5478.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	30245.4	0.0	30245.4
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	35724.0	0.0	35724.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	822.6	2.3
10°-20°	1770.5	5.0
20°-30°	2289.1	6.4
30°-40°	3080.3	8.6
40°-50°	4911.7	13.7
50°-60°	8675.3	24.3
60°-70°	9544.0	26.7
70°-80°	3992.4	11.2
80°-90°	638.1	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°	35724.0	100.0
0°-180°	35724.0	100.0

**Coefficient of Utilization**



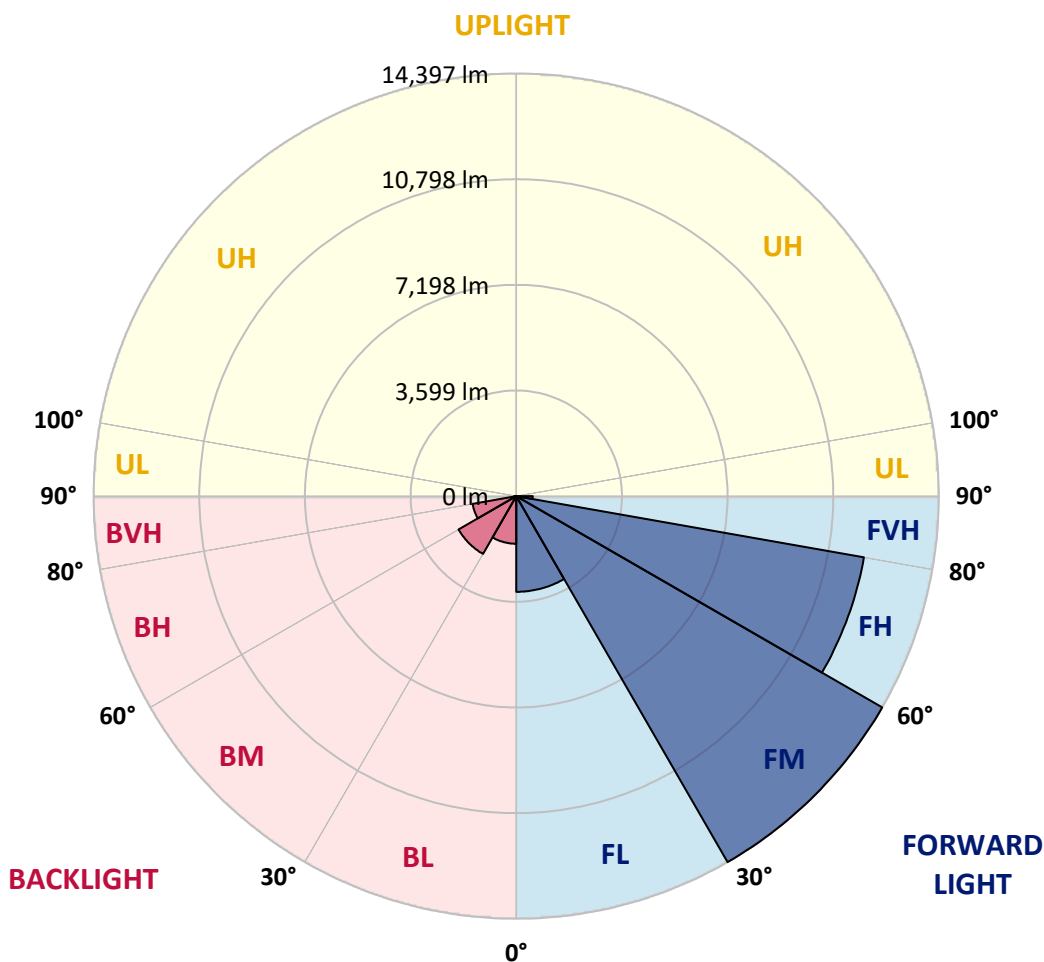
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3259.7	9.1			
FM (30°-60°)	14396.7	40.3			
FH (60°-80°)	12025.8	33.7			G5
FVH (80°-90°)	563.2	1.6			G4/750
BL (0°-30°)	1622.5	4.5	B3/2500		
BM (30°-60°)	2270.6	6.4	B2/2500		
BH (60°-80°)	1510.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	74.9	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°	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6
2.5°	10088.9	10105.0	10105.0	10137.1	10028.6	10080.8	10072.8	10024.6	10040.6	9956.2	9871.8
5°	9803.5	9791.4	9855.8	9863.8	9948.2	9972.3	9992.4	9960.3	9968.3	9783.4	9703.0
7.5°	9072.0	9067.9	9176.5	9268.9	9445.8	9610.6	9719.1	9686.9	9731.1	9614.6	9425.7
10°	8203.7	8296.2	8408.7	8501.2	8826.8	9035.8	9317.1	9345.3	9514.1	9486.0	9144.3
12.5°	7552.6	7592.8	7677.2	7942.5	8239.9	8585.6	8987.5	9023.7	9188.5	9268.9	8971.5
15°	7018.0	7054.2	7162.7	7359.7	7693.3	8103.3	8613.7	8706.2	9035.8	9063.9	8746.4
17.5°	6628.1	6656.2	6728.6	6925.6	7198.9	7725.4	8207.8	8372.6	8806.7	8943.3	8513.2
20°	6475.4	6415.1	6455.3	6579.9	6853.2	7259.2	7882.2	8026.9	8581.6	8850.9	8292.2
22.5°	6407.0	6354.8	6378.9	6370.9	6587.9	6877.3	7532.5	7685.2	8368.5	8742.4	8095.2
25°	6459.3	6459.3	6435.2	6415.1	6439.2	6628.1	7154.7	7391.8	8083.2	8649.9	7894.2
27.5°	6740.7	6632.1	6644.2	6559.8	6535.7	6535.7	6985.8	7126.5	7990.7	8597.7	7729.4
30°	6921.5	6973.8	6977.8	6853.2	6728.6	6503.5	6829.1	6965.7	7914.3	8662.0	7633.0
32.5°	7383.8	7359.7	7291.3	7267.2	7082.3	6829.1	6905.5	6997.9	7870.1	8806.7	7661.1
35°	7846.0	7834.0	7838.0	7825.9	7633.0	7259.2	7110.5	7235.1	7950.5	9059.9	7757.6
37.5°	8324.3	8356.5	8493.1	8493.1	8288.2	7882.2	7685.2	7649.1	8243.9	9473.9	7986.7
40°	8802.6	8883.0	9055.9	9329.2	9039.8	8662.0	8344.4	8288.2	8597.7	10028.6	8537.4
42.5°	9260.9	9393.5	9735.2	10141.1	10044.7	9666.8	9244.8	9180.5	9325.2	10852.6	9305.1
45°	9847.7	9960.3	10498.9	11121.9	11254.5	10920.9	10426.5	10374.3	10366.2	12058.4	10362.2
47.5°	10740.0	10860.6	11399.2	12026.3	12436.3	12488.5	11933.8	11877.5	11684.6	13686.3	11909.7
50°	11857.4	12054.4	12508.6	13240.1	13835.0	14393.7	14237.0	14072.2	13694.3	15579.5	13871.2
52.5°	12673.4	12914.6	13529.6	14466.1	15515.2	16403.5	16966.2	16966.2	16098.0	17657.6	16230.6
55°	12890.5	13035.2	13810.9	15165.5	16962.2	19209.1	20386.8	20298.3	18959.9	19844.1	18975.9
57.5°	12026.3	12215.2	13155.7	14574.6	17721.9	21833.8	23783.2	23803.3	22087.0	22384.5	21685.1
60°	9646.7	9707.0	10816.4	12713.6	16990.3	23948.0	28421.7	28498.1	25644.2	24647.4	23063.7
62.5°	6668.3	6861.2	7697.3	9361.4	14076.2	23710.9	32895.4	33273.2	28494.1	25841.2	23280.8
65°	4389.3	4505.8	4952.0	5964.9	9799.5	20551.6	34286.1	35451.8	30672.6	25909.5	22372.4
67.5°	3183.4	3203.5	3336.2	3858.7	5888.5	14779.6	31910.6	33554.6	31488.6	25338.8	20242.1
70°	2572.5	2588.5	2636.8	2970.4	3802.4	9248.8	26026.1	28602.6	29040.7	22633.7	16303.0
72.5°	2090.1	2110.2	2170.5	2484.0	3135.2	5144.9	19032.2	22171.4	23622.5	16745.1	10836.5
75°	1644.0	1660.0	1804.7	2114.2	2946.3	3533.1	12625.2	15700.1	15897.0	9787.4	5072.6
77.5°	1125.5	1153.6	1330.4	1792.7	2773.4	3091.0	7870.1	10056.7	9023.7	3830.6	1744.5
80°	715.5	755.7	860.2	1358.6	2451.9	2950.3	4895.7	6005.1	3951.1	1310.3	840.1
82.5°	422.0	462.2	566.7	880.3	1925.3	2737.3	3448.7	3758.2	1853.0	671.3	506.5
85°	233.1	261.3	341.7	530.6	1129.5	2431.8	2761.4	2697.1	1061.1	357.7	317.5
87.5°	76.4	88.4	124.6	213.0	466.3	1145.6	1656.0	1555.5	550.7	164.8	124.6
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°	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6	9823.6
2.5°	9815.6	9803.5	9622.6	9486.0	9252.8	9059.9	8983.5	8879.0	8875.0	8798.6	8778.5
5°	9578.4	9453.8	9176.5	8911.2	8497.2	8219.8	7966.6	7789.7	7717.4	7560.6	7524.5
7.5°	9272.9	9108.1	8682.1	8183.6	7697.3	7263.2	6869.3	6475.4	6254.3	6177.9	6093.5
10°	8955.4	8666.0	8034.9	7476.2	6796.9	6129.7	5510.7	4956.0	4654.6	4441.5	4349.1
12.5°	8702.2	8316.3	7512.4	6676.3	5780.0	4887.7	4168.2	3585.4	3243.7	3082.9	3010.6
15°	8416.8	7906.3	6941.6	5884.5	4767.1	3754.2	3050.8	2592.6	2455.9	2379.5	2367.5
17.5°	8115.3	7524.5	6322.6	5104.7	3778.3	2825.7	2371.5	2186.6	2126.3	2094.1	2078.1
20°	7834.0	7182.8	5687.6	4236.5	2958.3	2267.0	2054.0	1957.5	1953.5	1969.5	1965.5
22.5°	7436.0	6736.6	5060.5	3432.6	2363.5	1973.6	1836.9	1812.8	1836.9	1857.0	1865.0
25°	7210.9	6370.9	4361.1	2725.2	1953.5	1752.5	1708.3	1700.2	1736.4	1760.5	1756.5
27.5°	6977.8	5993.0	3710.0	2182.6	1712.3	1595.7	1587.7	1595.7	1631.9	1668.1	1664.1
30°	6796.9	5691.6	3099.0	1824.8	1527.4	1483.2	1475.1	1483.2	1503.3	1507.3	1507.3
32.5°	6648.2	5333.8	2580.5	1583.7	1414.9	1378.7	1386.7	1382.7	1386.7	1390.7	1394.8
35°	6559.8	5120.8	2154.4	1435.0	1322.4	1294.3	1290.3	1278.2	1282.2	1286.2	1282.2
37.5°	6748.7	5016.3	1816.8	1330.4	1258.1	1234.0	1225.9	1217.9	1205.8	1205.8	1205.8
40°	7034.1	4960.0	1611.8	1262.1	1209.9	1181.7	1157.6	1149.6	1149.6	1153.6	1157.6
42.5°	7600.8	5052.5	1471.1	1209.9	1149.6	1117.4	1093.3	1097.3	1109.4	1121.4	1113.4
45°	8420.8	5333.8	1406.8	1169.7	1113.4	1069.2	1053.1	1049.1	1061.1	1081.2	1097.3
47.5°	9494.0	5772.0	1382.7	1133.5	1089.3	1029.0	1008.9	1020.9	1037.0	1065.2	1053.1
50°	11250.5	6756.7	1402.8	1101.3	1053.1	1008.9	984.8	972.7	984.8	1004.9	1012.9
52.5°	13545.6	8545.4	1479.2	1085.3	1029.0	992.8	952.6	932.5	944.6	960.7	960.7
55°	16290.9	10989.2	1692.2	1065.2	988.8	968.7	924.5	884.3	892.3	892.3	888.3
57.5°	18710.7	12834.2	1945.4	1037.0	964.7	936.5	880.3	832.0	824.0	828.0	832.0
60°	19795.9	13324.6	2066.0	1029.0	964.7	896.3	820.0	771.7	759.7	751.6	751.6
62.5°	19607.0	12476.4	1820.8	992.8	988.8	864.2	763.7	711.4	695.4	679.3	683.3
65°	18465.5	11266.6	1435.0	944.6	992.8	844.1	707.4	655.2	627.0	606.9	602.9
67.5°	16379.4	9618.6	1137.5	908.4	952.6	807.9	659.2	598.9	574.8	554.7	546.6
70°	12814.1	7540.5	988.8	860.2	856.1	719.5	602.9	550.7	514.5	490.4	490.4
72.5°	8308.3	4767.1	848.1	763.7	739.6	602.9	522.5	490.4	462.2	442.1	442.1
75°	3762.2	2214.7	683.3	639.1	602.9	482.3	442.1	426.1	401.9	381.9	381.9
77.5°	1350.5	944.6	510.5	502.4	450.2	373.8	357.7	345.7	329.6	309.5	309.5
80°	755.7	598.9	381.9	365.8	313.5	277.3	257.2	257.2	249.2	237.1	233.1
82.5°	478.3	389.9	281.4	245.2	205.0	184.9	176.9	172.8	168.8	152.7	148.7
85°	301.5	265.3	184.9	144.7	120.6	92.4	88.4	84.4	76.4	68.3	68.3
87.5°	136.7	152.7	72.4	44.2	32.2	20.1	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)