

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: P480442

Luminaire Tested: **IFLD-M-SA4E-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480442
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

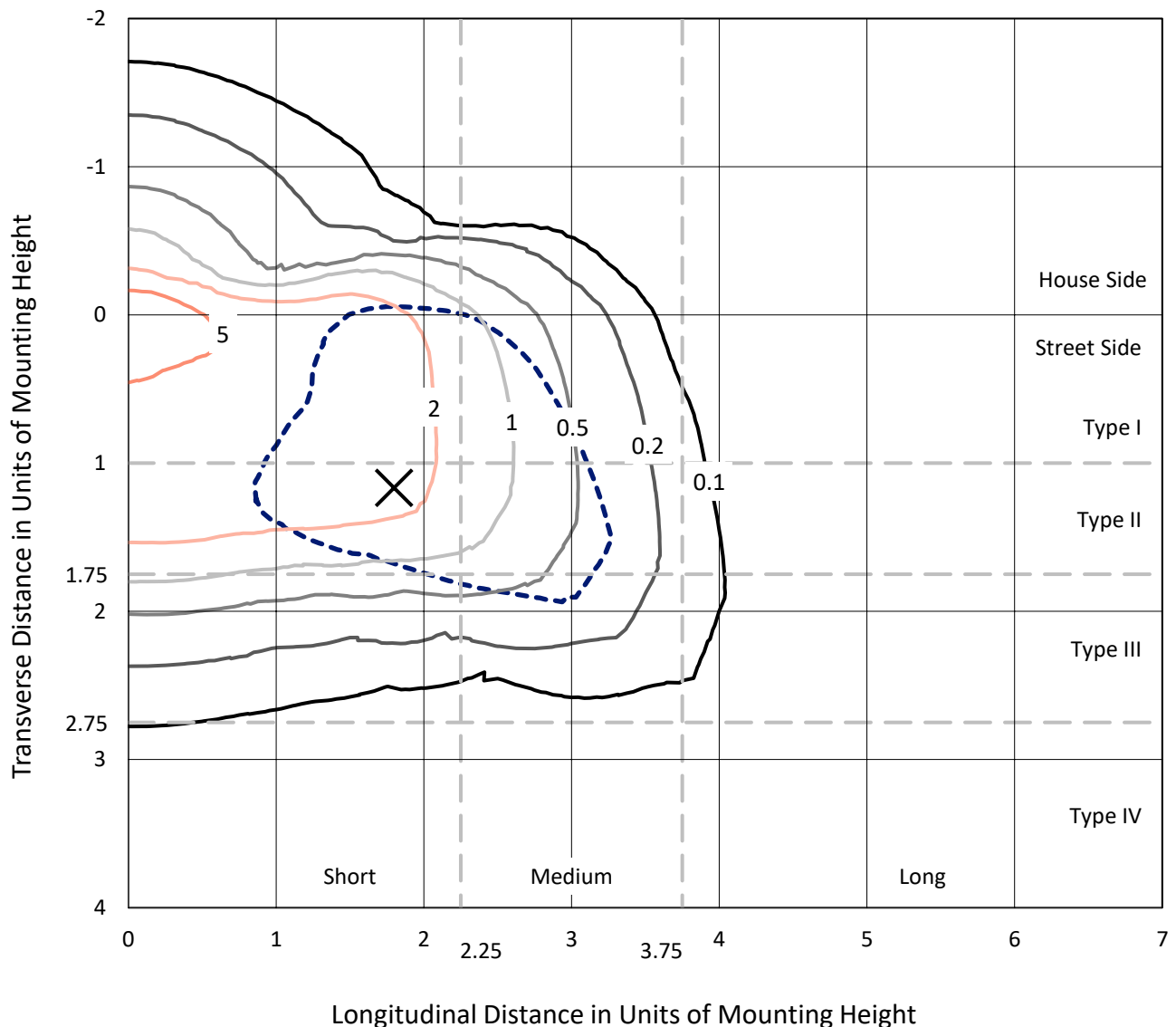
Lumens per Lamp: N/A
Luminaire Lumens: 32530.3 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

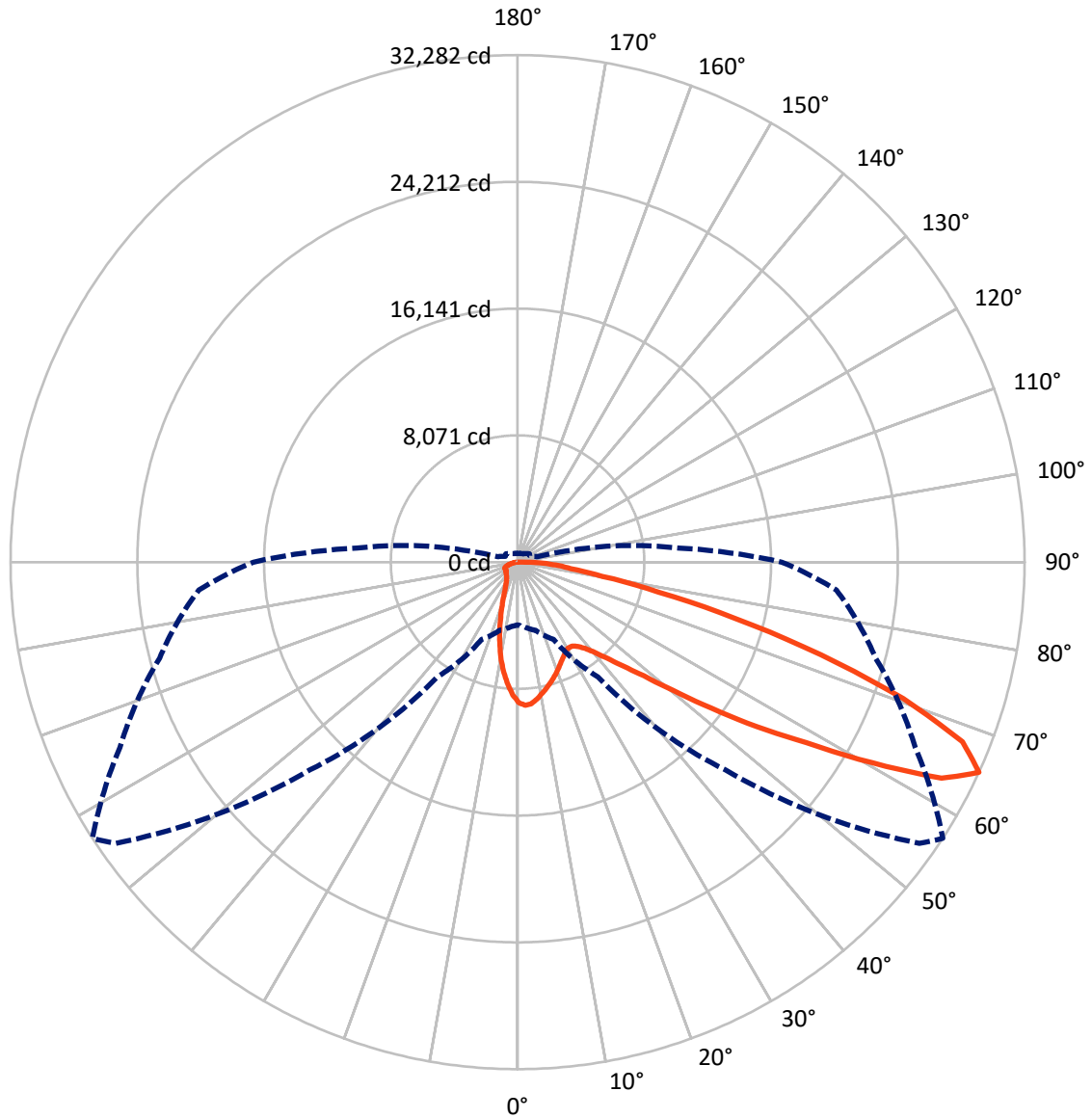
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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
House Side	Lumens	4988.8	0.0	4988.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27541.4	0.0	27541.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	32530.3	0.0	32530.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.1	2.3
10°-20°	1612.2	5.0
20°-30°	2084.4	6.4
30°-40°	2804.9	8.6
40°-50°	4472.6	13.7
50°-60°	7899.7	24.3
60°-70°	8690.8	26.7
70°-80°	3635.5	11.2
80°-90°	581.0	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°	32530.3	100.0
0°-180°	32530.3	100.0

Coefficient of Utilization



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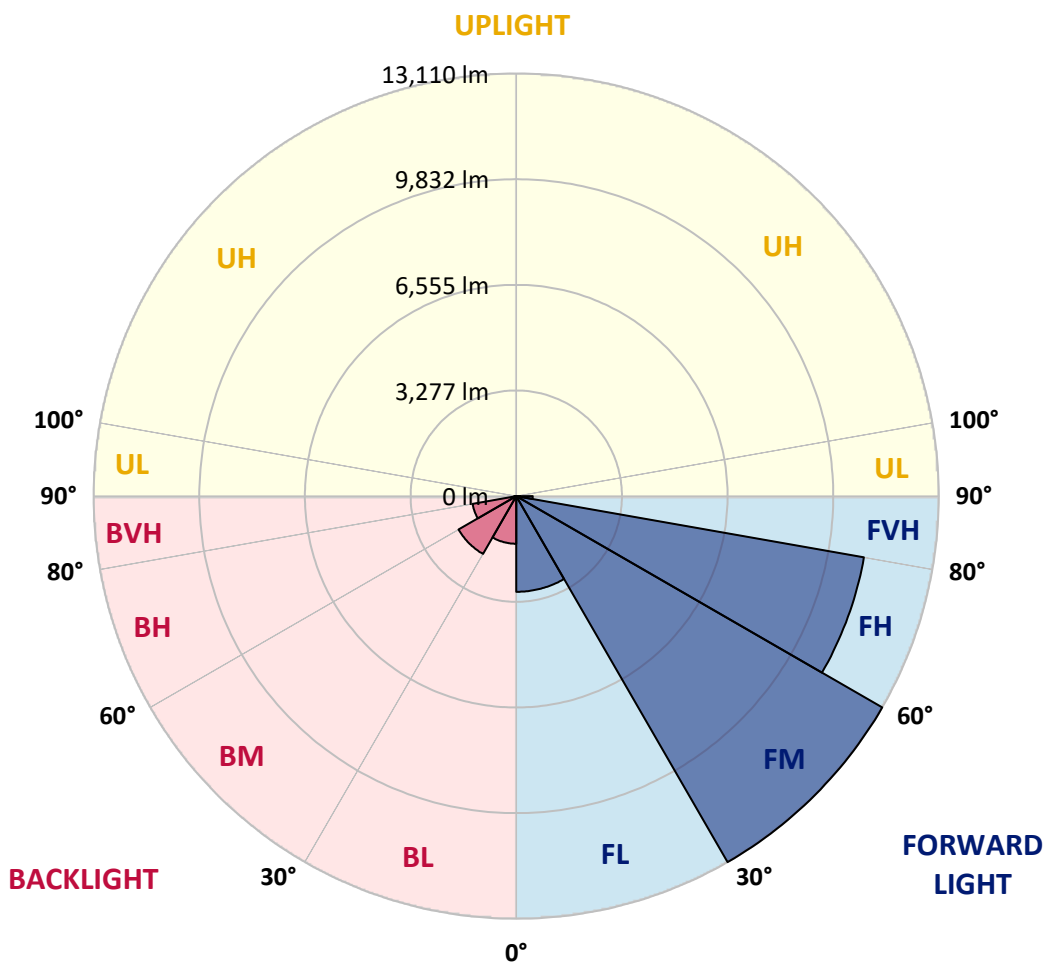
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2968.3	9.1			
FM (30°-60°)	13109.7	40.3			
FH (60°-80°)	10950.7	33.7			G4/12000
FVH (80°-90°)	512.9	1.6			G4/750
BL (0°-30°)	1477.5	4.5	B3/2500		
BM (30°-60°)	2067.6	6.4	B2/2500		
BH (60°-80°)	1375.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	68.2	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°	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4
2.5°	9186.9	9201.6	9201.6	9230.9	9132.0	9179.6	9172.3	9128.4	9143.0	9066.2	8989.3
5°	8927.1	8916.1	8974.6	8982.0	9058.8	9080.8	9099.1	9069.8	9077.1	8908.8	8835.6
7.5°	8260.9	8257.3	8356.1	8440.3	8601.3	8751.4	8850.2	8820.9	8861.2	8755.0	8583.0
10°	7470.3	7554.5	7657.0	7741.2	8037.7	8228.0	8484.2	8509.8	8663.5	8637.9	8326.8
12.5°	6877.4	6914.0	6990.9	7232.4	7503.3	7818.0	8184.1	8217.0	8367.1	8440.3	8169.4
15°	6390.6	6423.5	6522.4	6701.7	7005.5	7378.8	7843.7	7927.8	8228.0	8253.6	7964.5
17.5°	6035.6	6061.2	6127.1	6306.4	6555.3	7034.8	7474.0	7624.1	8019.4	8143.8	7752.2
20°	5896.5	5841.6	5878.2	5991.6	6240.5	6610.2	7177.5	7309.3	7814.4	8059.6	7550.9
22.5°	5834.3	5786.7	5808.6	5801.3	5999.0	6262.5	6859.1	6998.2	7620.4	7960.8	7371.5
25°	5881.8	5881.8	5859.9	5841.6	5863.5	6035.6	6515.0	6731.0	7360.5	7876.6	7188.5
27.5°	6138.0	6039.2	6050.2	5973.3	5951.4	5951.4	6361.3	6489.4	7276.3	7829.0	7038.4
30°	6302.7	6350.3	6354.0	6240.5	6127.1	5922.1	6218.6	6343.0	7206.8	7887.6	6950.6
32.5°	6723.7	6701.7	6639.5	6617.5	6449.2	6218.6	6288.1	6372.3	7166.5	8019.4	6976.2
35°	7144.6	7133.6	7137.3	7126.3	6950.6	6610.2	6474.8	6588.2	7239.7	8249.9	7064.1
37.5°	7580.1	7609.4	7733.9	7733.9	7547.2	7177.5	6998.2	6965.2	7506.9	8626.9	7272.7
40°	8015.7	8088.9	8246.3	8495.2	8231.6	7887.6	7598.4	7547.2	7829.0	9132.0	7774.1
42.5°	8432.9	8553.7	8864.8	9234.5	9146.7	8802.6	8418.3	8359.7	8491.5	9882.4	8473.2
45°	8967.3	9069.8	9560.3	10127.6	10248.4	9944.6	9494.4	9446.8	9439.5	10980.4	9435.8
47.5°	9779.9	9889.7	10380.1	10951.1	11324.5	11372.0	10866.9	10815.7	10640.0	12462.8	10845.0
50°	10797.4	10976.7	11390.3	12056.5	12598.2	13106.9	12964.2	12814.1	12470.1	14186.7	12631.1
52.5°	11540.4	11760.0	12320.0	13172.8	14128.1	14937.0	15449.4	15449.4	14658.8	16079.0	14779.6
55°	11738.0	11869.8	12576.2	13809.7	15445.8	17491.8	18564.2	18483.7	17264.8	18070.1	17279.5
57.5°	10951.1	11123.1	11979.6	13271.6	16137.5	19881.8	21657.0	21675.3	20112.4	20383.3	19746.4
60°	8784.3	8839.2	9849.4	11577.0	15471.4	21807.1	25880.8	25950.3	23351.7	22443.9	21001.8
62.5°	6072.2	6247.8	7009.2	8524.5	12817.8	21591.1	29954.5	30298.6	25946.7	23531.0	21199.5
65°	3996.9	4103.0	4509.3	5431.6	8923.4	18714.3	31220.9	32282.4	27930.5	23593.2	20372.3
67.5°	2898.8	2917.1	3037.9	3513.7	5362.1	13458.3	29057.8	30554.8	28673.5	23073.5	18432.4
70°	2342.5	2357.1	2401.0	2704.8	3462.5	8422.0	23699.4	26045.5	26444.5	20610.2	14845.5
72.5°	1903.3	1921.6	1976.5	2262.0	2854.9	4685.0	17330.7	20189.3	21510.6	15248.1	9867.7
75°	1497.0	1511.6	1643.4	1925.2	2682.9	3217.3	11496.5	14296.5	14475.8	8912.4	4619.1
77.5°	1024.8	1050.5	1211.5	1632.4	2525.5	2814.6	7166.5	9157.7	8217.0	3488.1	1588.5
80°	651.5	688.1	783.3	1237.1	2232.7	2686.5	4458.0	5468.2	3597.9	1193.2	765.0
82.5°	384.3	420.9	516.1	801.6	1753.2	2492.6	3140.4	3422.2	1687.3	611.2	461.2
85°	212.3	237.9	311.1	483.1	1028.5	2214.4	2514.5	2455.9	966.3	325.8	289.2
87.5°	69.5	80.5	113.5	194.0	424.6	1043.1	1508.0	1416.5	501.4	150.1	113.5
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°	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4
2.5°	8938.0	8927.1	8762.4	8637.9	8425.6	8249.9	8180.4	8085.2	8081.6	8012.0	7993.7
5°	8722.1	8608.6	8356.1	8114.5	7737.5	7485.0	7254.4	7093.3	7027.5	6884.7	6851.8
7.5°	8443.9	8293.9	7905.9	7452.0	7009.2	6613.9	6255.2	5896.5	5695.2	5625.6	5548.8
10°	8154.8	7891.2	7316.6	6807.8	6189.3	5581.7	5018.0	4512.9	4238.4	4044.4	3960.3
12.5°	7924.2	7572.8	6840.8	6079.5	5263.3	4450.7	3795.6	3264.8	2953.7	2807.3	2741.4
15°	7664.3	7199.5	6321.1	5358.4	4340.9	3418.6	2778.0	2360.8	2236.3	2166.8	2155.8
17.5°	7389.8	6851.8	5757.4	4648.4	3440.5	2573.1	2159.5	1991.1	1936.2	1906.9	1892.3
20°	7133.6	6540.7	5179.1	3857.8	2693.9	2064.3	1870.3	1782.5	1778.8	1793.5	1789.8
22.5°	6771.2	6134.4	4608.1	3125.8	2152.2	1797.1	1672.7	1650.7	1672.7	1691.0	1698.3
25°	6566.3	5801.3	3971.2	2481.6	1778.8	1595.8	1555.6	1548.2	1581.2	1603.1	1599.5
27.5°	6354.0	5457.3	3378.3	1987.5	1559.2	1453.1	1445.8	1453.1	1486.0	1519.0	1515.3
30°	6189.3	5182.7	2822.0	1661.7	1390.9	1350.6	1343.3	1350.6	1368.9	1372.6	1372.6
32.5°	6053.9	4857.0	2349.8	1442.1	1288.4	1255.4	1262.7	1259.1	1262.7	1266.4	1270.1
35°	5973.3	4663.0	1961.8	1306.7	1204.2	1178.6	1174.9	1163.9	1167.6	1171.2	1167.6
37.5°	6145.4	4567.8	1654.4	1211.5	1145.6	1123.7	1116.3	1109.0	1098.0	1098.0	1098.0
40°	6405.2	4516.6	1467.7	1149.3	1101.7	1076.1	1054.1	1046.8	1046.8	1050.5	1054.1
42.5°	6921.3	4600.8	1339.6	1101.7	1046.8	1017.5	995.6	999.2	1010.2	1021.2	1013.9
45°	7668.0	4857.0	1281.0	1065.1	1013.9	973.6	959.0	955.3	966.3	984.6	999.2
47.5°	8645.2	5256.0	1259.1	1032.2	991.9	937.0	918.7	929.7	944.3	969.9	959.0
50°	10244.7	6152.7	1277.4	1002.9	959.0	918.7	896.7	885.8	896.7	915.0	922.4
52.5°	12334.6	7781.4	1346.9	988.2	937.0	904.1	867.5	849.2	860.1	874.8	874.8
55°	14834.5	10006.8	1540.9	969.9	900.4	882.1	841.8	805.2	812.5	812.5	808.9
57.5°	17037.9	11686.8	1771.5	944.3	878.4	852.8	801.6	757.6	750.3	754.0	757.6
60°	18026.2	12133.3	1881.3	937.0	878.4	816.2	746.7	702.7	691.8	684.4	684.4
62.5°	17854.1	11361.1	1658.0	904.1	900.4	786.9	695.4	647.8	633.2	618.6	622.2
65°	16814.7	10259.4	1306.7	860.1	904.1	768.6	644.2	596.6	571.0	552.7	549.0
67.5°	14915.0	8758.7	1035.8	827.2	867.5	735.7	600.3	545.4	523.4	505.1	497.8
70°	11668.5	6866.4	900.4	783.3	779.6	655.2	549.0	501.4	468.5	446.5	446.5
72.5°	7565.5	4340.9	772.3	695.4	673.5	549.0	475.8	446.5	420.9	402.6	402.6
75°	3425.9	2016.7	622.2	582.0	549.0	439.2	402.6	388.0	366.0	347.7	347.7
77.5°	1229.8	860.1	464.8	457.5	409.9	340.4	325.8	314.8	300.1	281.8	281.8
80°	688.1	545.4	347.7	333.1	285.5	252.5	234.2	234.2	226.9	215.9	212.3
82.5°	435.6	355.0	256.2	223.3	186.7	168.4	161.0	157.4	153.7	139.1	135.4
85°	274.5	241.6	168.4	131.8	109.8	84.2	80.5	76.9	69.5	62.2	62.2
87.5°	124.4	139.1	65.9	40.3	29.3	18.3	11.0	3.7	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)