

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: P477131

Luminaire Tested: **IFLD-L-SA7D-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477131
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

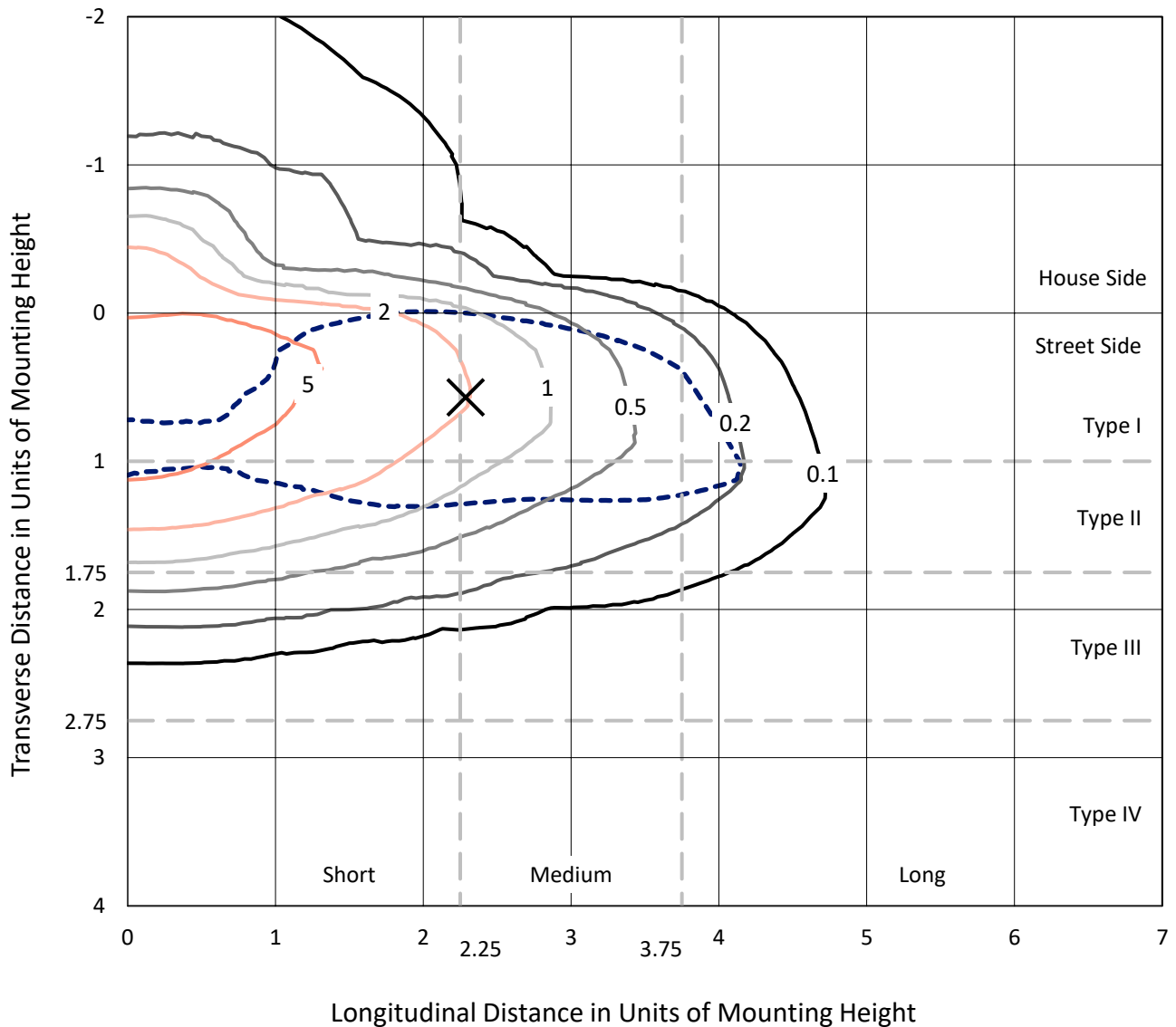
Lumens per Lamp: N/A
Luminaire Lumens: 36059 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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

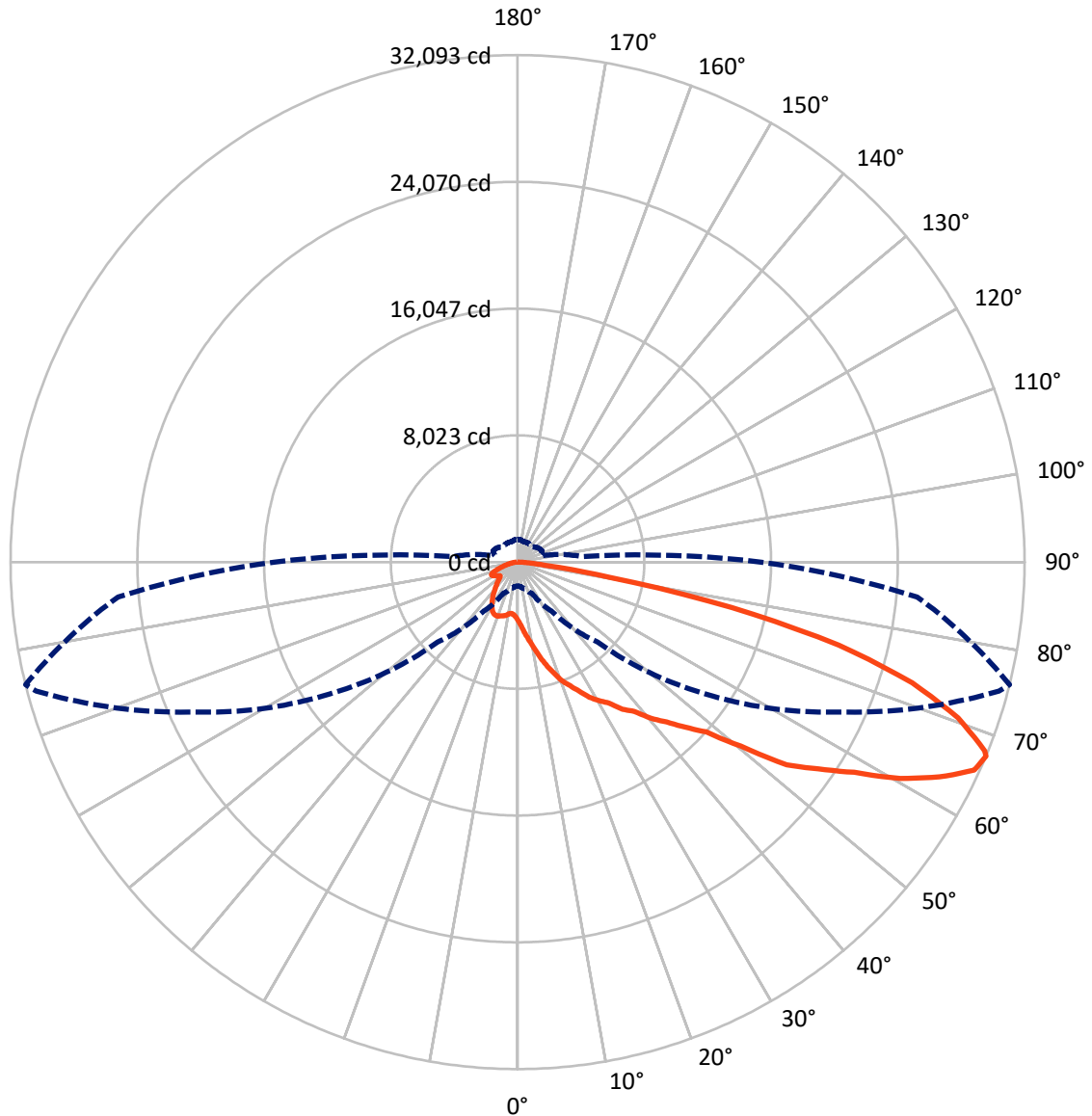
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5129.8	0.0	5129.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30929.2	0.0	30929.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	36059.0	0.0	36059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.4	1.2
10°-20°	1603.1	4.4
20°-30°	2980.4	8.3
30°-40°	4724.7	13.1
40°-50°	6534.7	18.1
50°-60°	8038.0	22.3
60°-70°	7479.8	20.7
70°-80°	3753.3	10.4
80°-90°	517.5	1.4
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°	36059.0	100.0
0°-180°	36059.0	100.0

Coefficient of Utilization



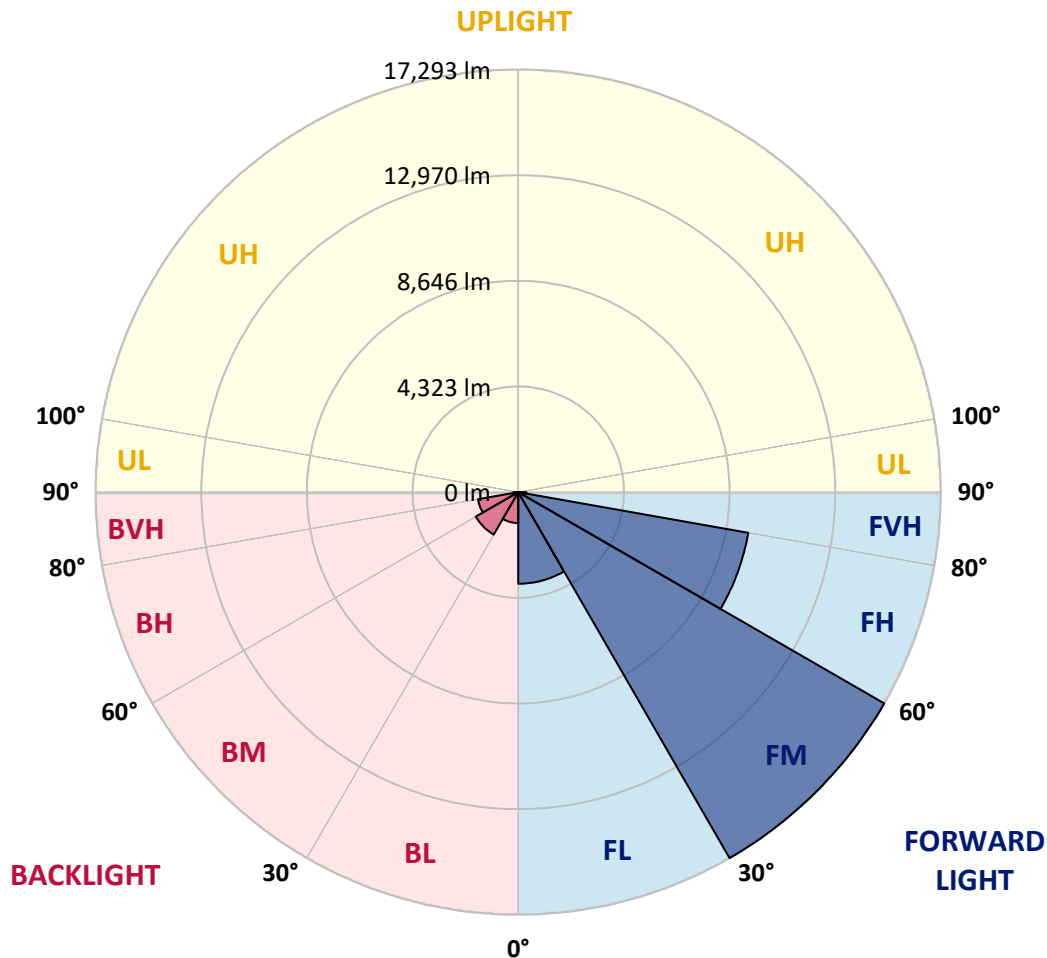
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3747.7	10.4			
FM (30°-60°)	17292.7	48.0			
FH (60°-80°)	9559.0	26.5			G4/12000
FVH (80°-90°)	329.7	0.9			G3/500
BL (0°-30°)	1263.3	3.5	B3/2500		
BM (30°-60°)	2004.6	5.6	B2/2500		
BH (60°-80°)	1674.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	187.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1
2.5°	5120.1	5058.5	4996.8	4865.3	4820.1	4696.9	4470.8	4220.2	4014.7	3986.0	3842.1
5°	6352.9	6262.5	6241.9	6168.0	5933.7	5695.4	5325.6	4922.9	4421.5	4458.5	3965.4
7.5°	7277.4	7224.0	7113.1	7043.2	6903.5	6587.1	6204.9	5670.7	5033.8	4910.5	4240.7
10°	7976.0	7902.1	7897.9	7836.3	7762.3	7437.7	7146.0	6426.8	5609.1	5440.6	4577.7
12.5°	8329.4	8317.1	8534.9	8534.9	8506.1	8370.5	7869.2	7211.7	6155.6	6098.1	4968.1
15°	8711.6	8608.8	8797.9	8941.7	9015.7	9085.5	8670.5	7976.0	6854.2	6743.2	5387.2
17.5°	8711.6	8703.4	8892.4	9130.7	9517.0	9607.4	9381.4	8678.7	7433.6	7351.4	5847.4
20°	8563.6	8682.8	8814.3	9134.8	9554.0	9919.7	9985.4	9397.8	8074.6	8008.9	6369.3
22.5°	9254.0	9138.9	9274.5	9397.8	9722.4	10277.2	10458.0	10030.6	8748.6	8497.9	6841.9
25°	10412.8	10334.7	10236.1	10055.3	10190.9	10433.3	10708.7	10499.1	9323.8	9044.4	7298.0
27.5°	11542.8	11546.9	11333.3	10938.8	10647.0	10696.3	11021.0	10910.0	9808.7	9685.5	7610.3
30°	13149.5	13050.9	12812.6	12278.4	11707.2	11238.7	11185.3	11292.2	10425.1	10186.8	8058.2
32.5°	14353.5	14374.1	14037.1	13268.7	12488.0	12105.8	11637.3	11682.5	10815.5	10638.8	8415.7
35°	15327.4	15302.8	15064.4	14427.5	13502.9	13042.7	12409.9	12151.0	11723.6	11444.2	8962.2
37.5°	16379.4	16178.0	15791.8	15072.7	14480.9	13844.0	13227.6	12644.1	12327.7	11990.7	9430.7
40°	16802.6	16802.6	16284.9	15956.1	15253.5	14772.7	14374.1	13293.4	13063.2	12997.5	10030.6
42.5°	16502.7	16687.6	16473.9	16100.0	15812.3	15204.2	15097.3	13967.3	13971.4	13839.9	10749.7
45°	16473.9	16219.1	16042.4	16137.0	16001.3	15968.5	16239.7	14900.1	14924.7	14908.3	11715.4
47.5°	15648.0	15532.9	15795.9	15952.0	16063.0	16572.5	17353.3	16013.7	16190.4	16067.1	12829.0
50°	14826.1	14805.6	14969.9	15537.0	16017.8	16856.1	18413.5	17731.3	18310.7	18302.5	14846.7
52.5°	12574.2	12792.0	13437.2	14637.1	15824.6	17242.3	19214.8	19925.7	21031.0	21331.0	16519.1
55°	10421.0	10306.0	11259.3	13001.6	14982.3	17394.4	20110.6	21244.7	22872.0	23089.8	18236.8
57.5°	8107.5	8321.2	9073.2	10745.6	13239.9	16642.4	20768.1	22547.4	24951.3	25119.7	20229.7
60°	6048.8	6077.6	6903.5	8251.3	10922.3	14945.3	20981.7	23882.9	27334.6	27815.4	22317.2
62.5°	3805.1	3977.7	4606.4	5933.7	8222.6	12570.1	20024.3	24692.4	29833.0	29960.4	24421.2
65°	2050.5	2161.5	2634.0	3468.2	5744.7	9508.8	17484.8	24207.5	31008.3	31764.4	25358.1
67°	1516.3	1536.9	1754.6	2214.9	3842.1	7158.3	14579.6	22452.8	31542.5	32093.1	25395.0
67.5°	1421.8	1450.6	1623.1	1988.9	3406.6	6591.2	13819.3	21828.2	31304.1	31895.9	25107.4
70°	1216.3	1224.6	1265.6	1368.4	1910.8	3965.4	9410.1	17887.5	29015.3	29582.4	23089.8
72.5°	1080.7	1088.9	1105.4	1125.9	1294.4	2293.0	5724.2	13765.9	25218.4	26122.4	19921.6
75°	949.2	978.0	986.2	969.8	1101.3	1491.7	3044.9	10116.9	20570.8	21010.5	15491.8
77.5°	805.4	817.7	834.2	850.6	982.1	1113.6	1462.9	6829.5	14119.3	13852.2	8378.7
80°	678.0	682.1	694.5	706.8	850.6	850.6	830.1	3690.1	6168.0	5896.7	2831.3
82.5°	484.9	513.7	542.4	575.3	706.8	571.2	542.4	1643.7	1951.9	1857.4	957.5
85°	189.0	230.1	357.5	394.5	447.9	308.2	361.6	710.9	813.6	805.4	357.5
87.5°	32.9	37.0	98.6	152.0	164.4	106.8	172.6	254.8	304.1	328.7	131.5
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°	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1	3690.1
2.5°	3723.0	3595.6	3443.5	3291.5	3192.9	3036.7	3024.4	2929.9	2917.6	2884.7	2901.1
5°	3751.7	3599.7	3291.5	3049.0	2938.1	2847.7	2868.2	2827.2	2814.8	2794.3	2761.4
7.5°	3977.7	3677.8	3217.5	3008.0	2925.8	2884.7	2884.7	2835.4	2798.4	2823.0	2847.7
10°	4125.7	3714.7	3275.1	3065.5	2999.7	2909.3	2942.2	2880.6	2901.1	2851.8	2851.8
12.5°	4364.0	3924.3	3394.2	3151.8	3044.9	2962.8	2995.6	2925.8	2909.3	2913.4	2901.1
15°	4684.5	4064.0	3447.6	3201.1	3127.1	3024.4	2999.7	2938.1	2876.5	2855.9	2880.6
17.5°	4984.5	4236.6	3484.6	3229.9	3110.7	2995.6	2966.9	2888.8	2868.2	2806.6	2757.3
20°	5342.0	4442.1	3533.9	3254.5	3049.0	2934.0	2860.0	2781.9	2712.1	2675.1	2691.5
22.5°	5580.3	4548.9	3558.6	3205.2	2958.6	2851.8	2695.7	2642.2	2543.6	2502.5	2469.6
25°	5970.7	4680.4	3497.0	3069.6	2798.4	2625.8	2486.1	2412.1	2342.3	2288.8	2272.4
27.5°	6069.3	4779.0	3353.1	2839.5	2543.6	2362.8	2243.6	2153.2	2108.0	2025.9	2009.4
30°	6357.0	4680.4	3139.5	2560.1	2301.2	2116.3	1997.1	1931.3	1824.5	1804.0	1758.8
32.5°	6541.9	4709.2	2868.2	2288.8	2021.7	1857.4	1779.3	1713.5	1684.8	1586.2	1561.5
35°	6850.1	4610.6	2592.9	2038.2	1791.6	1664.2	1598.5	1577.9	1483.4	1438.2	1397.1
37.5°	7047.3	4553.0	2317.6	1754.6	1541.0	1487.5	1508.1	1421.8	1306.7	1220.4	1191.7
40°	7392.5	4532.5	2005.3	1520.4	1368.4	1356.0	1421.8	1257.4	1047.9	973.9	932.8
42.5°	7889.7	4392.8	1762.9	1310.8	1232.8	1286.2	1298.5	1047.9	928.7	867.0	838.3
45°	8366.4	4421.5	1524.5	1084.8	1072.5	1150.6	1121.8	887.6	817.7	772.5	797.2
47.5°	9282.8	4565.4	1290.3	904.0	965.7	1039.6	871.2	793.1	727.3	694.5	698.6
50°	10700.4	4705.1	1084.8	826.0	912.2	941.0	747.9	719.1	715.0	649.3	645.1
52.5°	11551.0	4651.6	1047.9	924.6	978.0	941.0	813.6	793.1	760.2	731.4	698.6
55°	12903.0	4807.8	1125.9	1080.7	1109.5	904.0	912.2	904.0	879.4	805.4	826.0
57.5°	13979.6	4910.5	1228.7	1208.1	1191.7	941.0	953.3	957.5	941.0	908.1	936.9
60°	15458.9	5116.0	1335.5	1339.6	1343.7	1023.2	1043.7	1068.4	1064.3	1052.0	1060.2
62.5°	16367.1	5021.5	1454.7	1520.4	1499.9	1191.7	1187.6	1204.0	1204.0	1224.6	1236.9
65°	16231.5	4672.2	1516.3	1680.7	1573.8	1315.0	1315.0	1323.2	1327.3	1368.4	1372.5
67°	15417.8	4047.6	1483.4	1705.3	1573.8	1364.3	1364.3	1372.5	1343.7	1450.6	1417.7
67.5°	15039.8	3862.7	1454.7	1684.8	1561.5	1360.2	1360.2	1364.3	1339.6	1442.3	1409.5
70°	13079.7	2868.2	1253.3	1491.7	1446.4	1323.2	1323.2	1298.5	1278.0	1413.6	1384.8
72.5°	11164.8	2083.4	1006.8	1269.8	1306.7	1273.9	1282.1	1220.4	1162.9	1257.4	1232.8
75°	8551.3	1532.7	784.9	978.0	1105.4	1191.7	1245.1	1088.9	1015.0	1039.6	994.4
77.5°	4770.8	998.5	620.5	723.2	842.4	1109.5	1195.8	982.1	830.1	801.3	801.3
80°	1619.0	583.5	456.1	538.3	579.4	982.1	1117.7	797.2	653.4	624.6	604.1
82.5°	612.3	357.5	312.3	369.8	369.8	776.6	912.2	612.3	493.1	636.9	649.3
85°	279.4	213.7	205.5	213.7	213.7	476.7	645.1	398.6	443.8	382.2	337.0
87.5°	110.9	102.7	94.5	90.4	74.0	82.2	221.9	106.8	201.4	53.4	49.3
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)