

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: P476932

Luminaire Tested: **IFLD-M-SA4E-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476932
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-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

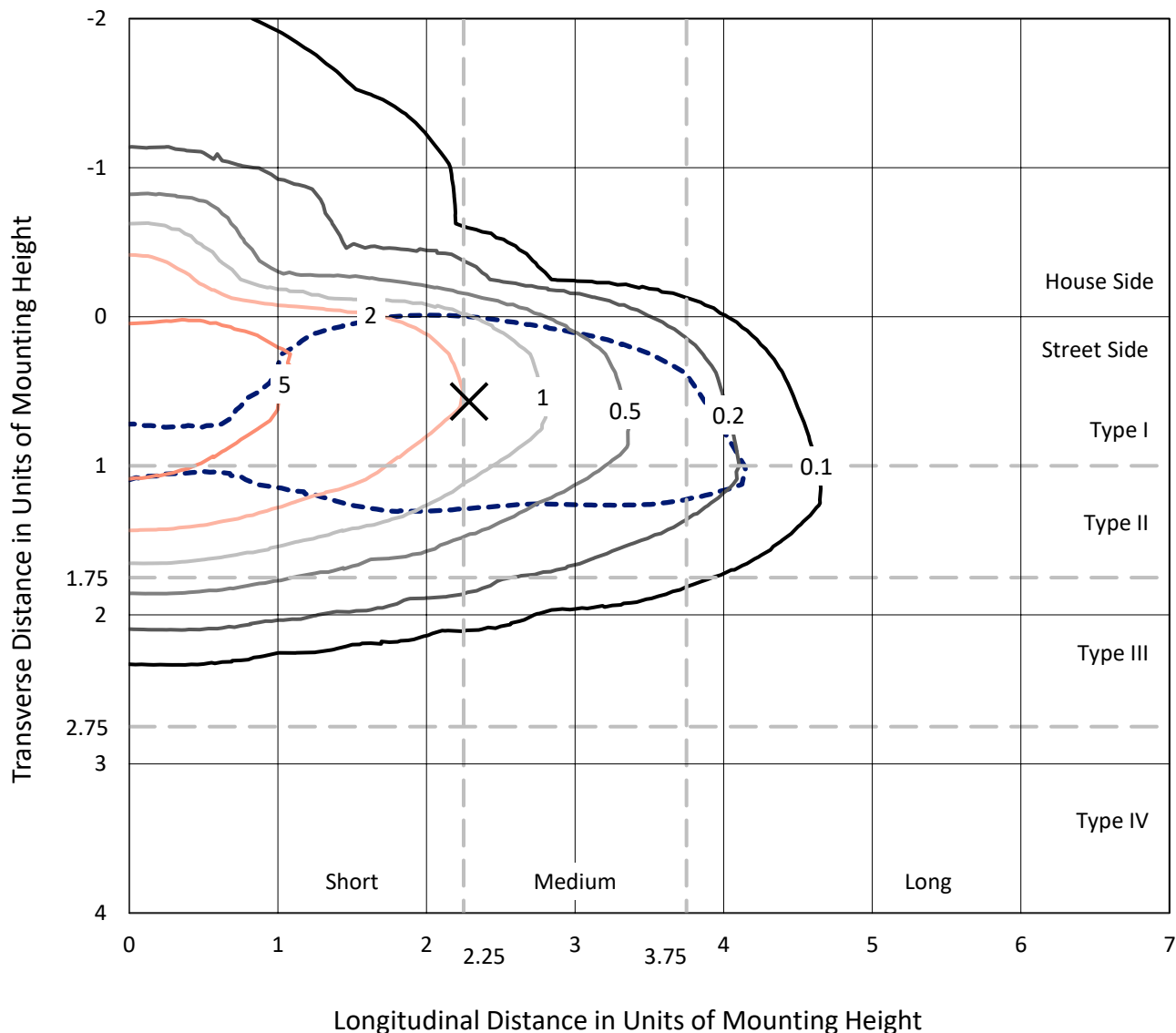
Lumens per Lamp: N/A
Luminaire Lumens: 33153.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

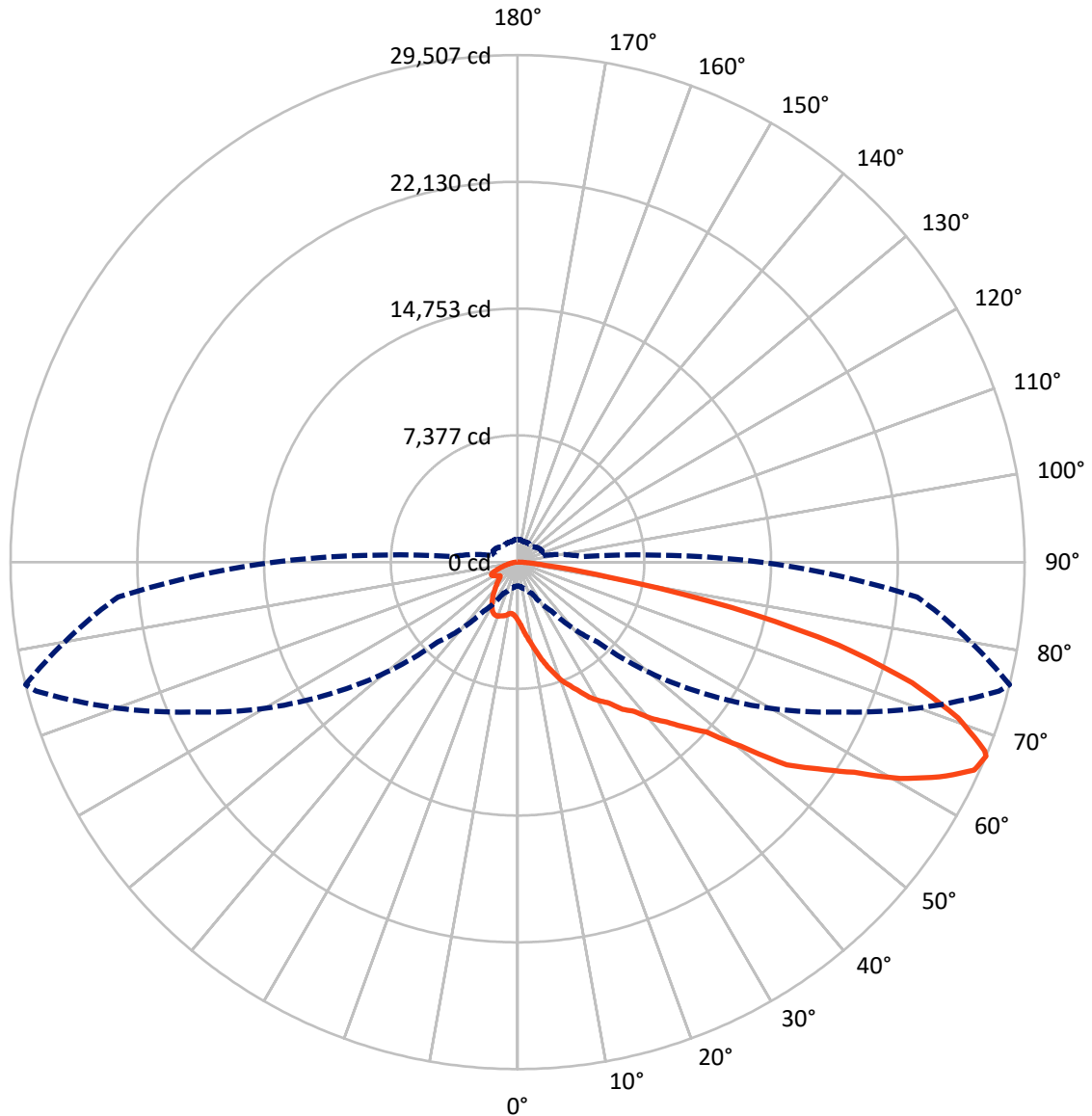
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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	4716.5	0.0	4716.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28436.7	0.0	28436.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	33153.2	0.0	33153.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.0	1.2
10°-20°	1473.9	4.4
20°-30°	2740.3	8.3
30°-40°	4343.9	13.1
40°-50°	6008.1	18.1
50°-60°	7390.3	22.3
60°-70°	6877.0	20.7
70°-80°	3450.9	10.4
80°-90°	475.8	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°	33153.2	100.0
0°-180°	33153.2	100.0

Coefficient of Utilization



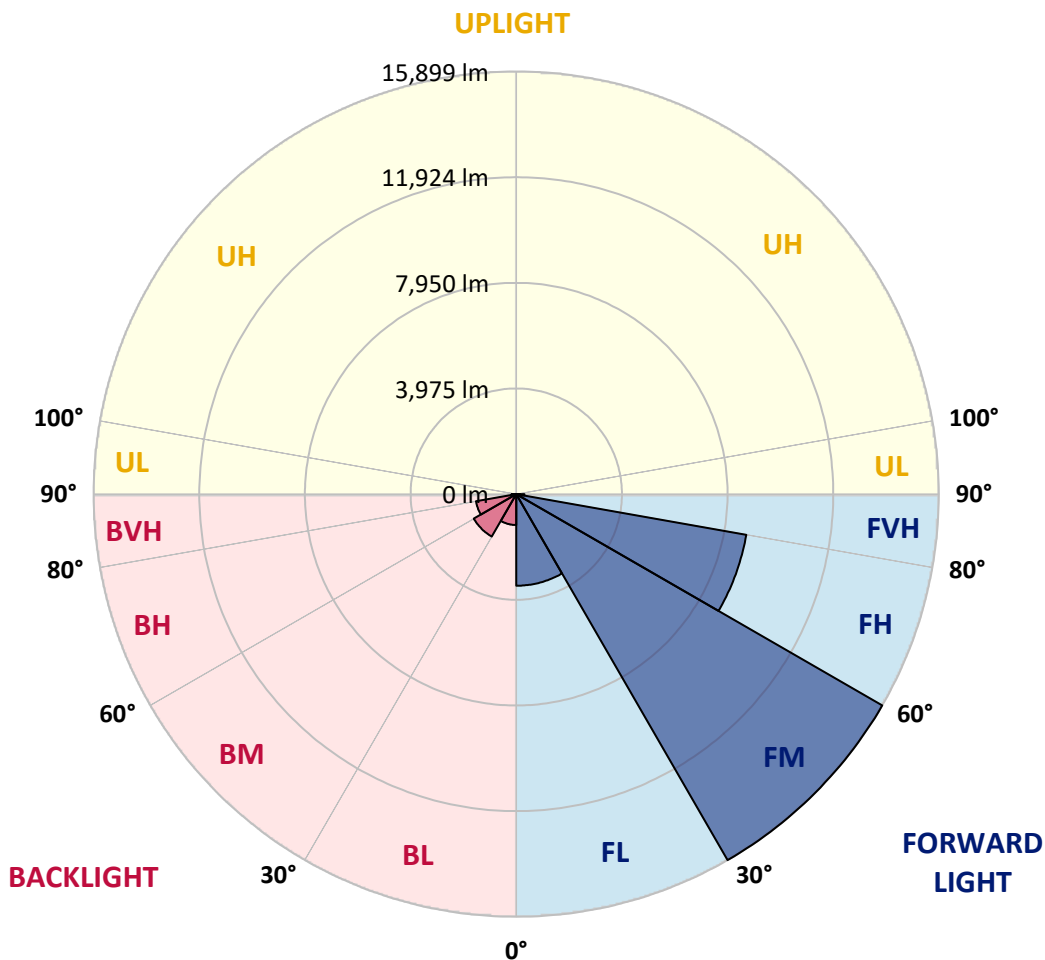
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3445.7	10.4			
FM (30°-60°)	15899.2	48.0			
FH (60°-80°)	8788.6	26.5			G4/12000
FVH (80°-90°)	303.2	0.9			G3/500
BL (0°-30°)	1161.5	3.5	B3/2500		
BM (30°-60°)	1843.1	5.6	B2/2500		
BH (60°-80°)	1539.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	172.7	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°	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7
2.5°	4707.5	4650.8	4594.2	4473.3	4431.7	4318.4	4110.6	3880.1	3691.2	3664.7	3532.5
5°	5840.9	5757.8	5738.9	5670.9	5455.6	5236.4	4896.4	4526.1	4065.2	4099.2	3645.9
7.5°	6691.0	6641.9	6539.9	6475.6	6347.2	6056.3	5704.9	5213.8	4628.2	4514.8	3899.0
10°	7333.3	7265.3	7261.5	7204.8	7136.8	6838.3	6570.1	5908.9	5157.1	5002.2	4208.8
12.5°	7658.2	7646.8	7847.1	7847.1	7820.6	7696.0	7235.0	6630.5	5659.6	5606.7	4567.7
15°	8009.5	7915.1	8088.9	8221.1	8289.1	8353.3	7971.8	7333.3	6301.8	6199.8	4953.1
17.5°	8009.5	8002.0	8175.8	8394.9	8750.0	8833.2	8625.4	7979.3	6834.6	6759.0	5376.2
20°	7873.5	7983.1	8104.0	8398.7	8784.1	9120.3	9180.8	8640.5	7423.9	7363.5	5856.0
22.5°	8508.3	8402.5	8527.1	8640.5	8939.0	9449.0	9615.2	9222.3	8043.5	7813.1	6290.5
25°	9573.7	9501.9	9411.2	9245.0	9369.7	9592.6	9845.7	9653.0	8572.5	8315.6	6709.9
27.5°	10612.6	10616.4	10420.0	10057.3	9789.0	9834.4	10132.8	10030.8	9018.3	8905.0	6997.0
30°	12089.9	11999.2	11780.1	11288.9	10763.8	10333.1	10284.0	10382.2	9585.0	9365.9	7408.8
32.5°	13196.9	13215.7	12905.9	12199.4	11481.6	11130.2	10699.5	10741.1	9943.9	9781.5	7737.5
35°	14092.3	14069.6	13850.5	13264.9	12414.8	11991.6	11409.8	11171.8	10778.9	10522.0	8240.0
37.5°	15059.5	14874.3	14519.2	13858.0	13314.0	12728.4	12161.7	11625.2	11334.3	11024.5	8670.7
40°	15448.6	15448.6	14972.6	14670.3	14024.3	13582.2	13215.7	12222.1	12010.5	11950.1	9222.3
42.5°	15172.8	15342.8	15146.3	14802.5	14538.1	13978.9	13880.7	12841.7	12845.5	12724.6	9883.5
45°	15146.3	14912.1	14749.6	14836.5	14711.9	14681.6	14931.0	13699.3	13722.0	13706.9	10771.3
47.5°	14387.0	14281.2	14523.0	14666.5	14768.5	15237.0	15954.9	14723.2	14885.7	14772.3	11795.2
50°	13631.3	13612.4	13763.6	14284.9	14727.0	15497.7	16929.6	16302.4	16835.2	16827.6	13650.2
52.5°	11560.9	11761.2	12354.3	13457.5	14549.4	15852.9	17666.3	18319.9	19336.2	19612.0	15187.9
55°	9581.2	9475.4	10352.0	11953.9	13774.9	15992.6	18490.0	19532.7	21028.8	21229.1	16767.1
57.5°	7454.2	7650.6	8342.0	9879.7	12173.0	15301.3	19094.4	20730.4	22940.5	23095.4	18599.5
60°	5561.3	5587.8	6347.2	7586.4	10042.2	13740.9	19290.9	21958.2	25131.8	25573.9	20518.8
62.5°	3498.5	3657.2	4235.2	5455.6	7560.0	11557.2	18410.6	22702.5	27428.9	27546.0	22453.2
65°	1885.3	1987.3	2421.8	3188.7	5281.8	8742.5	16075.8	22256.7	28509.4	29204.6	23314.6
67°	1394.1	1413.0	1613.2	2036.4	3532.5	6581.4	13404.7	20643.5	29000.6	29506.9	23348.6
67.5°	1307.2	1333.7	1492.3	1828.6	3132.0	6060.1	12705.7	20069.2	28781.5	29325.5	23084.1
70°	1118.3	1125.9	1163.7	1258.1	1756.8	3645.9	8651.8	16446.0	26677.1	27198.4	21229.1
72.5°	993.6	1001.2	1016.3	1035.2	1190.1	2108.2	5262.9	12656.6	23186.1	24017.3	18316.2
75°	872.7	899.2	906.7	891.6	1012.5	1371.4	2799.6	9301.6	18913.1	19317.4	14243.4
77.5°	740.5	751.8	767.0	782.1	903.0	1023.9	1345.0	6279.2	12981.5	12735.9	7703.5
80°	623.4	627.2	638.5	649.8	782.1	782.1	763.2	3392.7	5670.9	5421.6	2603.1
82.5°	445.8	472.3	498.7	528.9	649.8	525.2	498.7	1511.2	1794.6	1707.7	880.3
85°	173.8	211.6	328.7	362.7	411.8	283.4	332.5	653.6	748.1	740.5	328.7
87.5°	30.2	34.0	90.7	139.8	151.1	98.2	158.7	234.2	279.6	302.2	120.9
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°	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7	3392.7
2.5°	3422.9	3305.8	3166.0	3026.2	2935.6	2792.0	2780.7	2693.8	2682.4	2652.2	2667.3
5°	3449.4	3309.6	3026.2	2803.3	2701.3	2618.2	2637.1	2599.3	2588.0	2569.1	2538.9
7.5°	3657.2	3381.4	2958.2	2765.6	2690.0	2652.2	2652.2	2606.9	2572.9	2595.5	2618.2
10°	3793.2	3415.4	3011.1	2818.5	2758.0	2674.9	2705.1	2648.4	2667.3	2622.0	2622.0
12.5°	4012.3	3608.1	3120.7	2897.8	2799.6	2724.0	2754.2	2690.0	2674.9	2678.7	2667.3
15°	4307.0	3736.5	3169.8	2943.1	2875.1	2780.7	2758.0	2701.3	2644.7	2625.8	2648.4
17.5°	4582.8	3895.2	3203.8	2969.6	2860.0	2754.2	2727.8	2656.0	2637.1	2580.4	2535.1
20°	4911.5	4084.1	3249.2	2992.2	2803.3	2697.6	2629.5	2557.8	2493.5	2459.5	2474.6
22.5°	5130.6	4182.3	3271.8	2946.9	2720.2	2622.0	2478.4	2429.3	2338.6	2300.9	2270.6
25°	5489.6	4303.2	3215.2	2822.2	2572.9	2414.2	2285.7	2217.7	2153.5	2104.4	2089.3
27.5°	5580.2	4393.9	3082.9	2610.7	2338.6	2172.4	2062.8	1979.7	1938.2	1862.6	1847.5
30°	5844.7	4303.2	2886.5	2353.7	2115.7	1945.7	1836.2	1775.7	1677.5	1658.6	1617.0
32.5°	6014.7	4329.7	2637.1	2104.4	1858.8	1707.7	1635.9	1575.5	1549.0	1458.3	1435.7
35°	6298.1	4239.0	2384.0	1873.9	1647.2	1530.1	1469.7	1450.8	1363.9	1322.3	1284.5
37.5°	6479.4	4186.1	2130.8	1613.2	1416.8	1367.7	1386.6	1307.2	1201.4	1122.1	1095.6
40°	6796.8	4167.2	1843.7	1397.9	1258.1	1246.8	1307.2	1156.1	963.4	895.4	857.6
42.5°	7253.9	4038.8	1620.8	1205.2	1133.4	1182.5	1193.9	963.4	853.8	797.2	770.7
45°	7692.2	4065.2	1401.7	997.4	986.1	1057.9	1031.4	816.1	751.8	710.3	732.9
47.5°	8534.7	4197.5	1186.3	831.2	887.9	955.9	801.0	729.2	668.7	638.5	642.3
50°	9838.1	4325.9	997.4	759.4	838.7	865.2	687.6	661.2	657.4	596.9	593.2
52.5°	10620.2	4276.8	963.4	850.1	899.2	865.2	748.1	729.2	698.9	672.5	642.3
55°	11863.2	4420.4	1035.2	993.6	1020.1	831.2	838.7	831.2	808.5	740.5	759.4
57.5°	12853.1	4514.8	1129.6	1110.8	1095.6	865.2	876.5	880.3	865.2	835.0	861.4
60°	14213.2	4703.7	1227.9	1231.7	1235.4	940.7	959.6	982.3	978.5	967.2	974.7
62.5°	15048.1	4616.8	1337.4	1397.9	1379.0	1095.6	1091.9	1107.0	1107.0	1125.9	1137.2
65°	14923.4	4295.7	1394.1	1545.2	1447.0	1209.0	1209.0	1216.5	1220.3	1258.1	1261.9
67°	14175.4	3721.4	1363.9	1567.9	1447.0	1254.3	1254.3	1261.9	1235.4	1333.7	1303.4
67.5°	13827.8	3551.4	1337.4	1549.0	1435.7	1250.5	1250.5	1254.3	1231.7	1326.1	1295.9
70°	12025.6	2637.1	1152.3	1371.4	1329.9	1216.5	1216.5	1193.9	1175.0	1299.7	1273.2
72.5°	10265.1	1915.5	925.6	1167.4	1201.4	1171.2	1178.8	1122.1	1069.2	1156.1	1133.4
75°	7862.2	1409.2	721.6	899.2	1016.3	1095.6	1144.8	1001.2	933.2	955.9	914.3
77.5°	4386.4	918.1	570.5	664.9	774.5	1020.1	1099.4	903.0	763.2	736.7	736.7
80°	1488.6	536.5	419.4	494.9	532.7	903.0	1027.6	732.9	600.7	574.3	555.4
82.5°	562.9	328.7	287.1	340.0	340.0	714.1	838.7	562.9	453.4	585.6	596.9
85°	256.9	196.5	188.9	196.5	196.5	438.3	593.2	366.5	408.0	351.4	309.8
87.5°	102.0	94.5	86.9	83.1	68.0	75.6	204.0	98.2	185.1	49.1	45.3
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)