

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: P477159

Luminaire Tested: **IFLD-S-SA6C-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477159
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

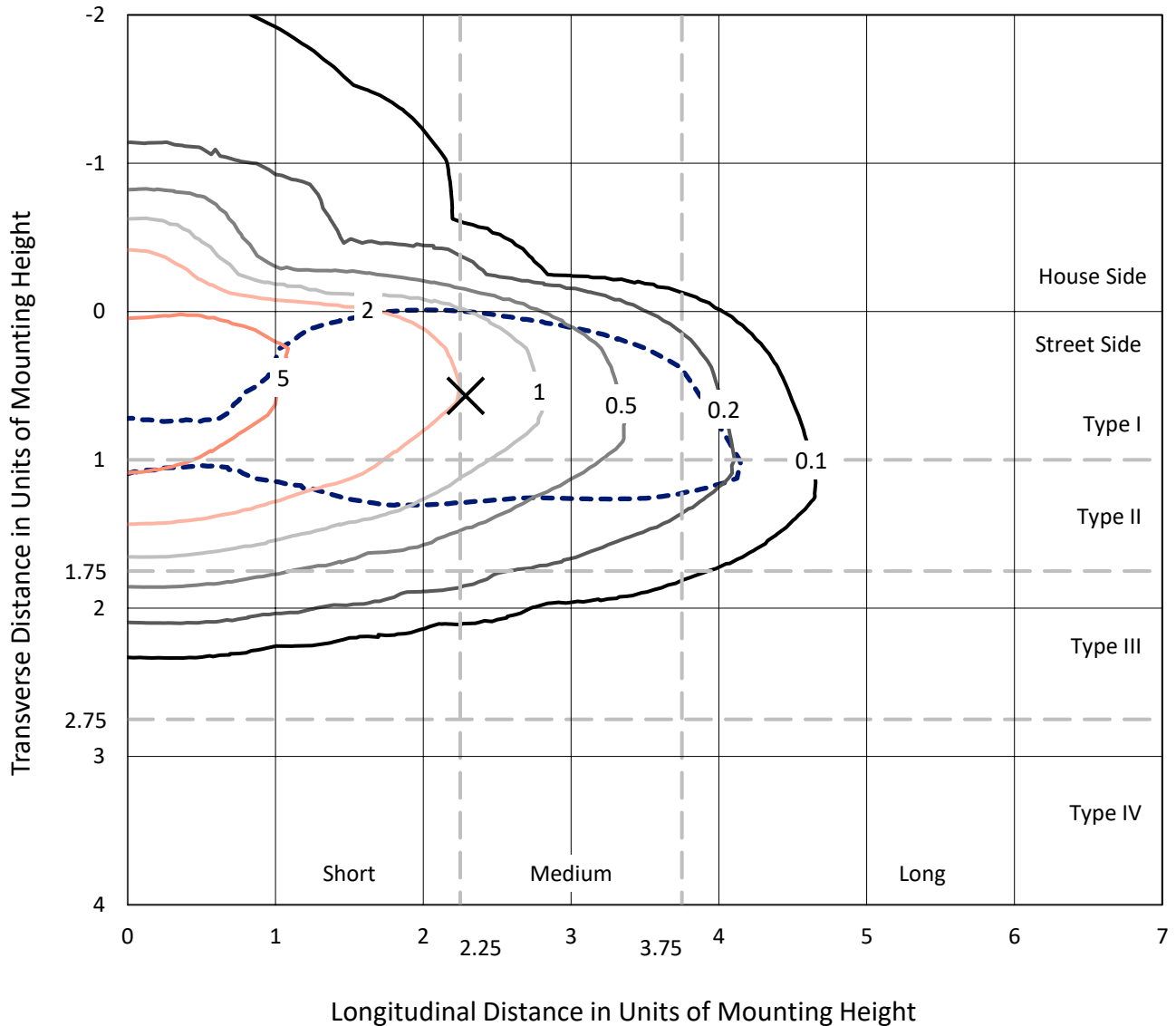
Lumens per Lamp: N/A
Luminaire Lumens: 33202.6 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

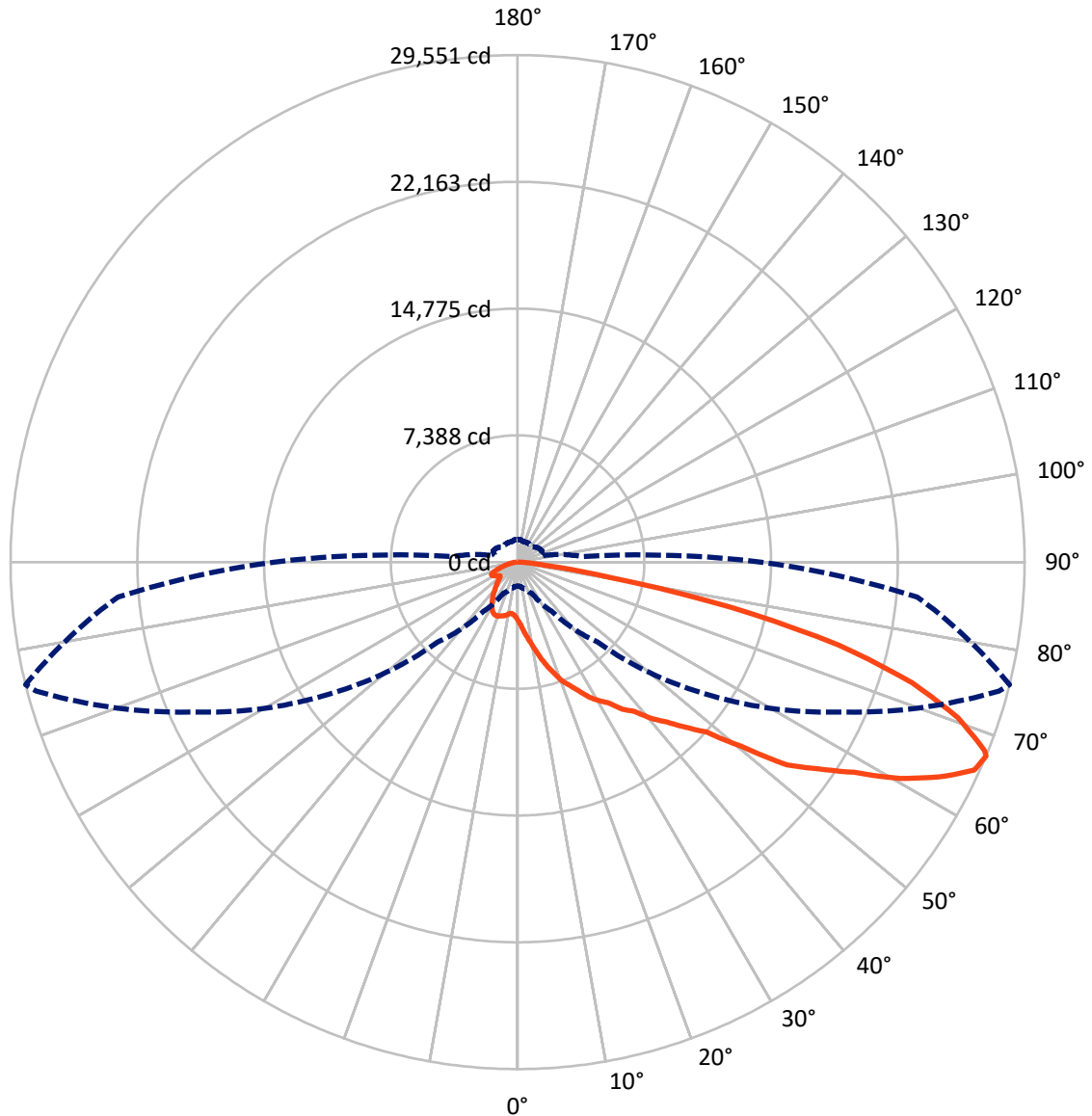
× Max cd
 - - - 1/2 Max cd



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	4723.5	0.0	4723.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28479.1	0.0	28479.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	33202.6	0.0	33202.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.6	1.2
10°-20°	1476.1	4.4
20°-30°	2744.4	8.3
30°-40°	4350.4	13.1
40°-50°	6017.0	18.1
50°-60°	7401.3	22.3
60°-70°	6887.3	20.7
70°-80°	3456.0	10.4
80°-90°	476.5	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°	33202.6	100.0
0°-180°	33202.6	100.0

Coefficient of Utilization



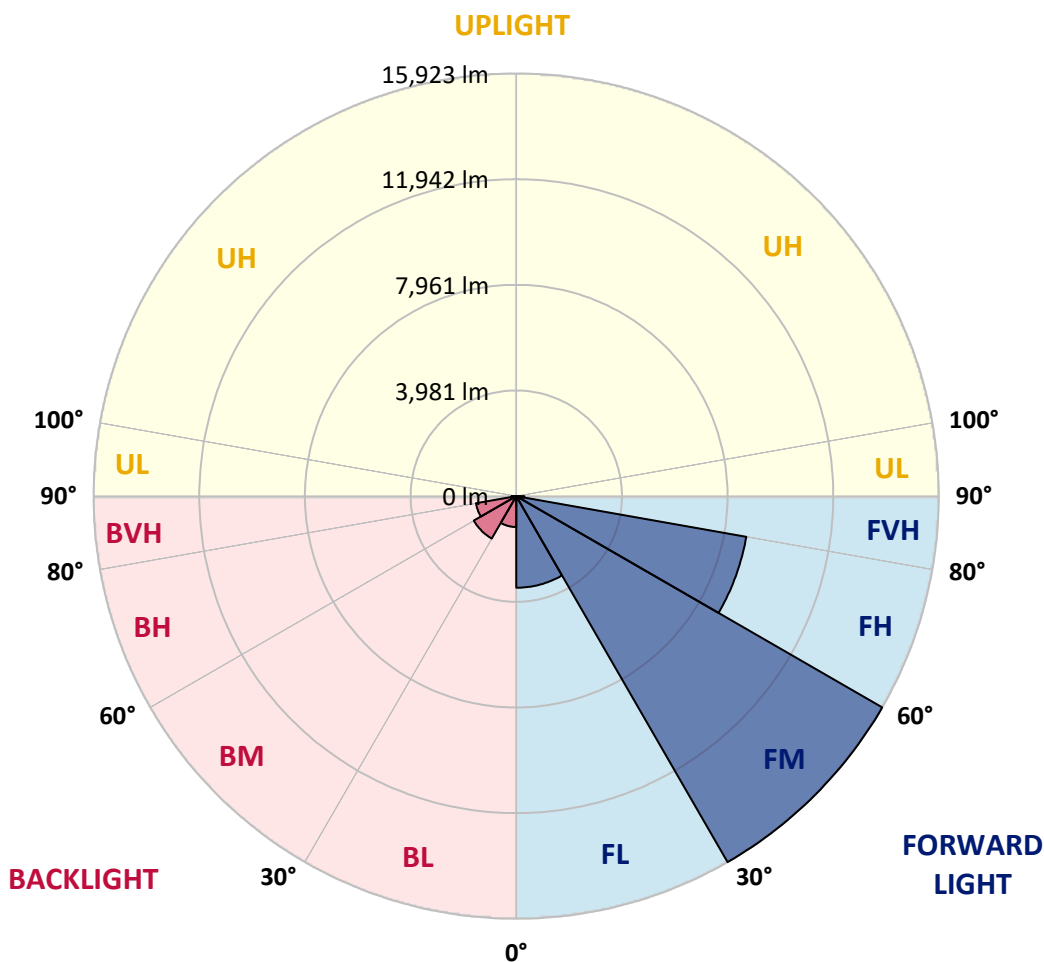
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3450.9	10.4			
FM (30°-60°)	15922.9	48.0			
FH (60°-80°)	8801.7	26.5			G4/12000
FVH (80°-90°)	303.6	0.9			G3/500
BL (0°-30°)	1163.2	3.5	B3/2500		
BM (30°-60°)	1845.8	5.6	B2/2500		
BH (60°-80°)	1541.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	172.9	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°	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8
2.5°	4714.5	4657.8	4601.0	4479.9	4438.3	4324.8	4116.7	3885.9	3696.7	3670.2	3537.8
5°	5849.6	5766.4	5747.5	5679.4	5463.7	5244.2	4903.7	4532.9	4071.3	4105.3	3651.3
7.5°	6701.0	6651.8	6549.6	6485.3	6356.7	6065.3	5713.4	5221.5	4635.1	4521.5	3904.8
10°	7344.2	7276.1	7272.3	7215.6	7147.5	6848.5	6579.9	5917.7	5164.8	5009.6	4215.1
12.5°	7669.6	7658.3	7858.8	7858.8	7832.3	7707.4	7245.8	6640.4	5668.0	5615.0	4574.5
15°	8021.5	7926.9	8100.9	8233.4	8301.5	8365.8	7983.7	7344.2	6311.2	6209.1	4960.5
17.5°	8021.5	8013.9	8188.0	8407.4	8763.1	8846.3	8638.2	7991.2	6844.8	6769.1	5384.2
20°	7885.3	7995.0	8116.1	8411.2	8797.2	9133.9	9194.4	8653.4	7435.0	7374.5	5864.8
22.5°	8520.9	8415.0	8539.9	8653.4	8952.3	9463.1	9629.6	9236.1	8055.5	7824.7	6299.9
25°	9588.0	9516.1	9425.3	9258.8	9383.6	9606.9	9860.4	9667.4	8585.3	8328.0	6719.9
27.5°	10628.5	10632.3	10435.5	10072.3	9803.6	9849.0	10147.9	10045.8	9031.7	8918.2	7007.5
30°	12107.9	12017.1	11797.6	11305.8	10779.8	10348.5	10299.3	10397.7	9599.3	9379.8	7419.9
32.5°	13216.5	13235.5	12925.2	12217.6	11498.7	11146.8	10715.5	10757.1	9958.8	9796.1	7749.1
35°	14113.3	14090.6	13871.1	13284.6	12433.3	12009.5	11426.8	11188.5	10795.0	10537.7	8252.3
37.5°	15081.9	14896.5	14540.8	13878.7	13333.8	12747.4	12179.8	11642.5	11351.2	11040.9	8683.6
40°	15471.6	15471.6	14994.9	14692.2	14045.2	13602.5	13235.5	12240.3	12028.5	11967.9	9236.1
42.5°	15195.4	15365.7	15168.9	14824.6	14559.8	13999.8	13901.4	12860.9	12864.7	12743.6	9898.2
45°	15168.9	14934.4	14771.7	14858.7	14733.8	14703.5	14953.3	13719.8	13742.5	13727.3	10787.4
47.5°	14408.4	14302.5	14544.6	14688.4	14790.6	15259.8	15978.7	14745.2	14907.9	14794.4	11812.8
50°	13651.7	13632.8	13784.1	14306.3	14748.9	15520.8	16954.9	16326.8	16860.3	16852.7	13670.6
52.5°	11578.2	11778.7	12372.8	13477.6	14571.1	15876.5	17692.7	18347.3	19365.1	19641.3	15210.6
55°	9595.5	9489.6	10367.4	11971.7	13795.5	16016.5	18517.5	19561.8	21060.2	21260.7	16792.2
57.5°	7465.3	7662.0	8354.5	9894.4	12191.2	15324.1	19122.9	20761.3	22974.8	23129.9	18627.3
60°	5569.6	5596.1	6356.7	7597.7	10057.1	13761.4	19319.7	21991.0	25169.3	25612.0	20549.4
62.5°	3503.7	3662.6	4241.6	5463.7	7571.2	11574.4	18438.1	22736.4	27469.8	27587.1	22486.7
65°	1888.1	1990.2	2425.4	3193.5	5289.6	8755.5	16099.7	22289.9	28552.0	29248.2	23349.3
67°	1396.2	1415.1	1615.6	2039.4	3537.8	6591.2	13424.6	20674.3	29043.9	29550.9	23383.4
67.5°	1309.2	1335.7	1494.6	1831.3	3136.7	6069.1	12724.7	20099.1	28824.4	29369.3	23118.5
70°	1120.0	1127.5	1165.4	1260.0	1759.4	3651.3	8664.7	16470.5	26716.9	27239.0	21260.7
72.5°	995.1	1002.7	1017.8	1036.7	1191.9	2111.3	5270.7	12675.5	23220.7	24053.1	18343.5
75°	874.0	900.5	908.1	893.0	1014.0	1373.5	2803.7	9315.5	18941.3	19346.2	14264.6
77.5°	741.6	753.0	768.1	783.2	904.3	1025.4	1347.0	6288.5	13000.9	12754.9	7715.0
80°	624.3	628.1	639.4	650.8	783.2	783.2	764.3	3397.8	5679.4	5429.6	2607.0
82.5°	446.5	473.0	499.5	529.7	650.8	525.9	499.5	1513.5	1797.3	1710.2	881.6
85°	174.1	211.9	329.2	363.2	412.4	283.8	333.0	654.6	749.2	741.6	329.2
87.5°	30.3	34.1	90.8	140.0	151.3	98.4	158.9	234.6	280.0	302.7	121.1
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°	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8
2.5°	3428.1	3310.8	3170.8	3030.8	2940.0	2796.2	2784.8	2697.8	2686.4	2656.2	2671.3
5°	3454.5	3314.5	3030.8	2807.5	2705.4	2622.1	2641.0	2603.2	2591.8	2572.9	2542.7
7.5°	3662.6	3386.4	2962.7	2769.7	2694.0	2656.2	2656.2	2610.8	2576.7	2599.4	2622.1
10°	3798.9	3420.5	3015.6	2822.7	2762.1	2678.9	2709.1	2652.4	2671.3	2625.9	2625.9
12.5°	4018.3	3613.5	3125.4	2902.1	2803.7	2728.1	2758.3	2694.0	2678.9	2682.7	2671.3
15°	4313.4	3742.1	3174.5	2947.5	2879.4	2784.8	2762.1	2705.4	2648.6	2629.7	2652.4
17.5°	4589.7	3901.0	3208.6	2974.0	2864.3	2758.3	2731.8	2660.0	2641.0	2584.3	2538.9
20°	4918.8	4090.2	3254.0	2996.7	2807.5	2701.6	2633.5	2561.6	2497.3	2463.2	2478.3
22.5°	5138.3	4188.6	3276.7	2951.3	2724.3	2625.9	2482.1	2432.9	2342.1	2304.3	2274.0
25°	5497.7	4309.7	3219.9	2826.4	2576.7	2417.8	2289.2	2221.0	2156.7	2107.5	2092.4
27.5°	5588.6	4400.5	3087.5	2614.6	2342.1	2175.6	2065.9	1982.7	1941.0	1865.4	1850.2
30°	5853.4	4309.7	2890.8	2357.3	2118.9	1948.6	1838.9	1778.3	1680.0	1661.1	1619.4
32.5°	6023.7	4336.1	2641.0	2107.5	1861.6	1710.2	1638.4	1577.8	1551.3	1460.5	1437.8
35°	6307.5	4245.3	2387.5	1876.7	1649.7	1532.4	1471.9	1452.9	1365.9	1324.3	1286.5
37.5°	6489.1	4192.4	2134.0	1615.6	1418.9	1369.7	1388.6	1309.2	1203.2	1123.8	1097.3
40°	6806.9	4173.4	1846.5	1400.0	1260.0	1248.6	1309.2	1157.8	964.8	896.7	858.9
42.5°	7264.7	4044.8	1623.2	1207.0	1135.1	1184.3	1195.7	964.8	855.1	798.4	771.9
45°	7703.7	4071.3	1403.8	998.9	987.6	1059.4	1033.0	817.3	753.0	711.3	734.0
47.5°	8547.4	4203.7	1188.1	832.4	889.2	957.3	802.1	730.3	669.7	639.4	643.2
50°	9852.8	4332.4	998.9	760.5	840.0	866.5	688.6	662.2	658.4	597.8	594.0
52.5°	10636.0	4283.2	964.8	851.3	900.5	866.5	749.2	730.3	700.0	673.5	643.2
55°	11880.9	4427.0	1036.7	995.1	1021.6	832.4	840.0	832.4	809.7	741.6	760.5
57.5°	12872.2	4521.5	1131.3	1112.4	1097.3	866.5	877.8	881.6	866.5	836.2	862.7
60°	14234.4	4710.7	1229.7	1233.5	1237.3	942.1	961.1	983.8	980.0	968.6	976.2
62.5°	15070.6	4623.7	1339.4	1400.0	1381.1	1097.3	1093.5	1108.6	1108.6	1127.5	1138.9
65°	14945.7	4302.1	1396.2	1547.5	1449.2	1210.8	1210.8	1218.4	1222.1	1260.0	1263.8
67°	14196.5	3727.0	1365.9	1570.2	1449.2	1256.2	1256.2	1263.8	1237.3	1335.7	1305.4
67.5°	13848.4	3556.7	1339.4	1551.3	1437.8	1252.4	1252.4	1256.2	1233.5	1328.1	1297.8
70°	12043.6	2641.0	1154.0	1373.5	1331.9	1218.4	1218.4	1195.7	1176.7	1301.6	1275.1
72.5°	10280.4	1918.3	927.0	1169.2	1203.2	1173.0	1180.5	1123.8	1070.8	1157.8	1135.1
75°	7873.9	1411.3	722.7	900.5	1017.8	1097.3	1146.5	1002.7	934.6	957.3	915.7
77.5°	4392.9	919.4	571.3	665.9	775.7	1021.6	1101.1	904.3	764.3	737.8	737.8
80°	1490.8	537.3	420.0	495.7	533.5	904.3	1029.2	734.0	601.6	575.1	556.2
82.5°	563.8	329.2	287.6	340.5	340.5	715.1	840.0	563.8	454.0	586.5	597.8
85°	257.3	196.8	189.2	196.8	196.8	438.9	594.0	367.0	408.6	351.9	310.3
87.5°	102.2	94.6	87.0	83.2	68.1	75.7	204.3	98.4	185.4	49.2	45.4
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)