

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: P476767

Luminaire Tested: **IFLD-S-SA6A-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476767
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

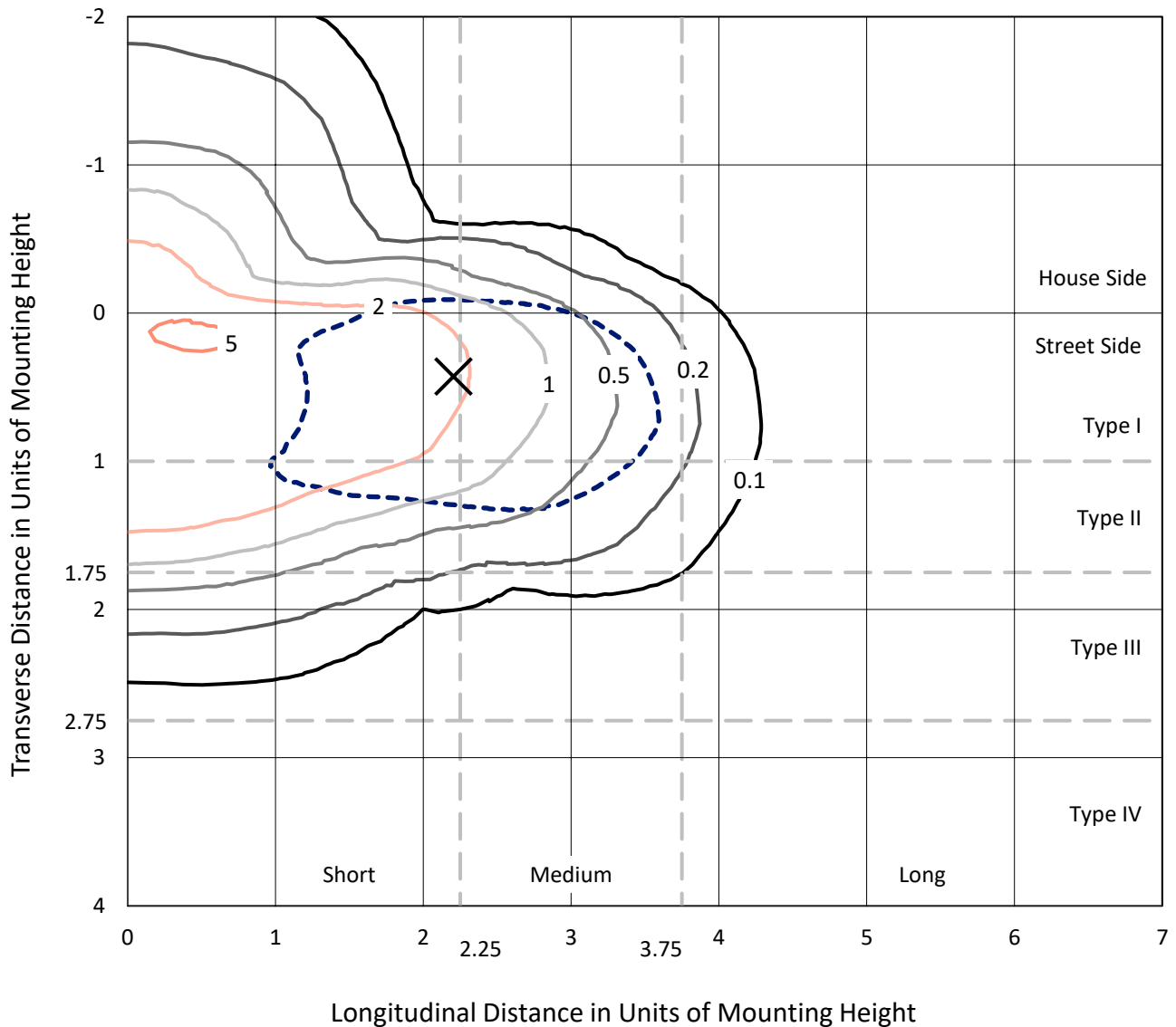
Lumens per Lamp: N/A
Luminaire Lumens: 21420.3 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6
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

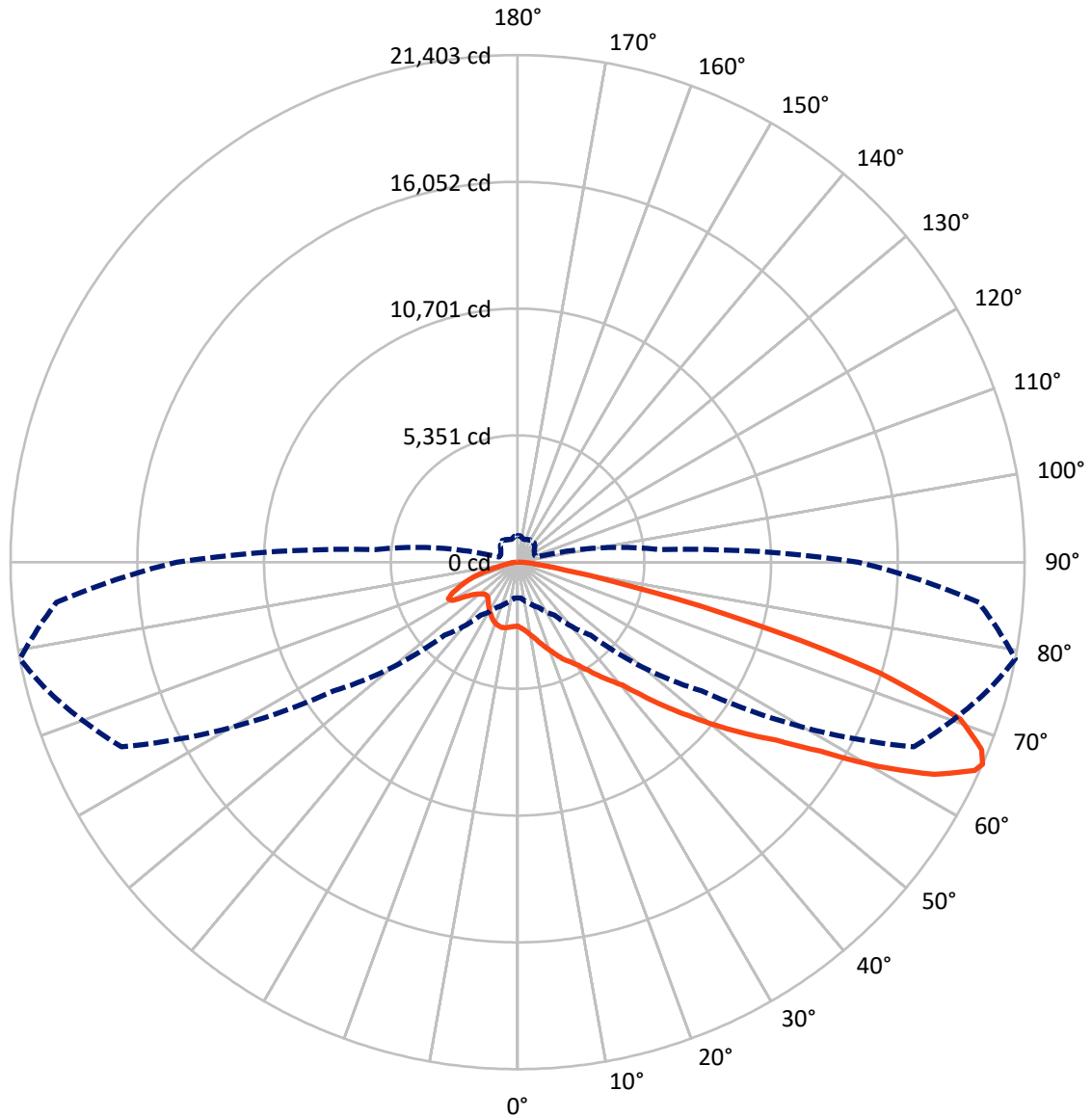
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4325.5	0.0	4325.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	17094.8	0.0	17094.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	21420.3	0.0	21420.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.0	1.2
10°-20°	821.3	3.8
20°-30°	1409.7	6.6
30°-40°	2177.8	10.2
40°-50°	3488.3	16.3
50°-60°	5208.2	24.3
60°-70°	5351.4	25.0
70°-80°	2372.2	11.1
80°-90°	325.5	1.5
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°	21420.3	100.0
0°-180°	21420.3	100.0

Coefficient of Utilization



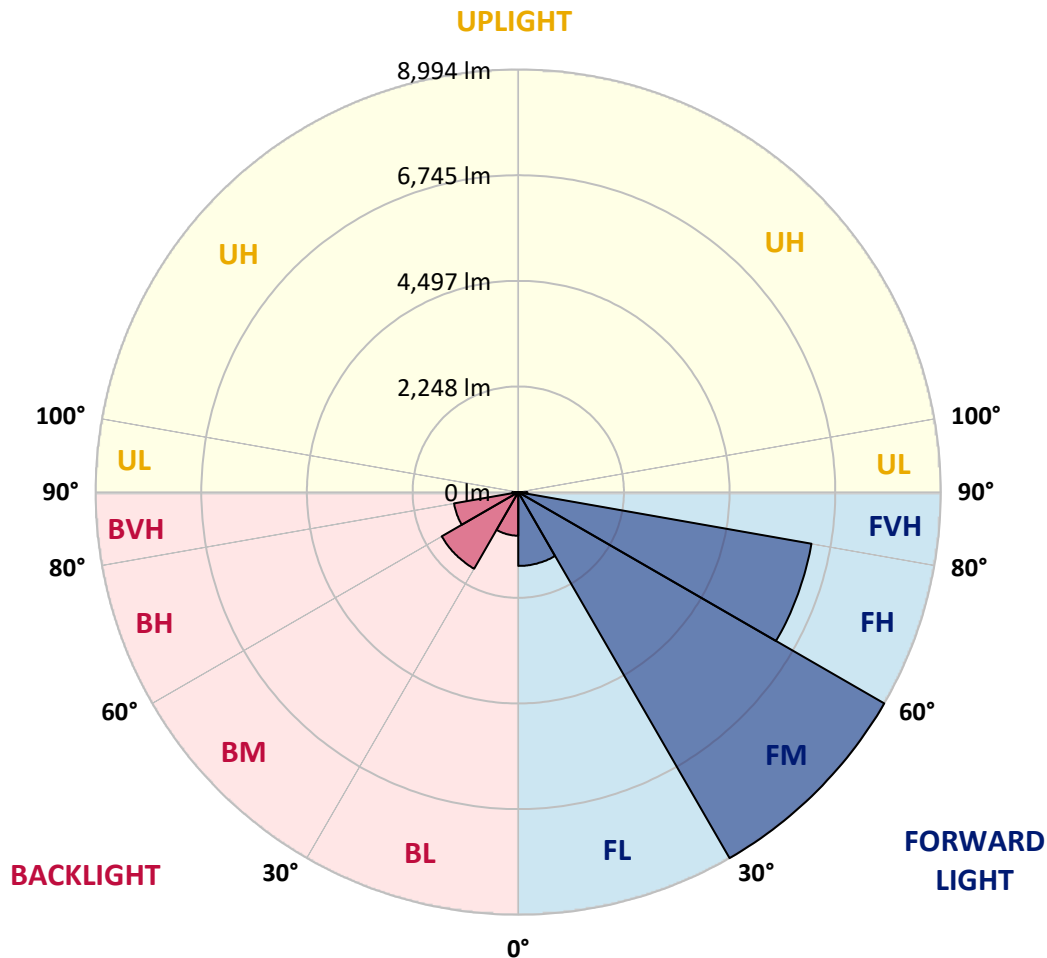
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.2	7.3			
FM (30°-60°)	8993.7	42.0			
FH (60°-80°)	6335.7	29.6			G3/7500
FVH (80°-90°)	195.2	0.9			G2/225
BL (0°-30°)	926.7	4.3	B2/1000		
BM (30°-60°)	1880.5	8.8	B2/2500		
BH (60°-80°)	1388.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	130.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8
2.5°	2876.8	2879.1	2879.1	2869.7	2872.1	2879.1	2853.2	2796.7	2796.7	2787.3	2770.8
5°	3053.5	3041.7	3025.2	3027.6	3018.2	3018.2	2989.9	2935.7	2888.6	2869.7	2820.2
7.5°	3077.1	3088.8	3086.5	3114.8	3128.9	3128.9	3143.0	3098.3	3027.6	2982.8	2933.3
10°	3124.2	3093.5	3091.2	3157.2	3178.4	3227.8	3284.4	3260.8	3201.9	3138.3	3072.3
12.5°	3152.5	3171.3	3171.3	3204.3	3253.8	3326.8	3425.8	3470.5	3378.6	3312.7	3211.4
15°	3194.9	3168.9	3244.3	3272.6	3366.9	3418.7	3560.1	3675.5	3614.2	3534.1	3373.9
17.5°	3213.7	3197.2	3239.6	3291.5	3451.7	3529.4	3701.4	3861.6	3809.8	3758.0	3593.0
20°	3310.3	3308.0	3326.8	3369.2	3484.7	3637.8	3852.2	4073.7	4092.5	3998.3	3774.5
22.5°	3545.9	3515.3	3515.3	3498.8	3548.3	3706.1	3995.9	4302.2	4387.0	4276.3	3979.4
25°	3762.7	3805.1	3779.2	3703.8	3684.9	3767.4	4099.6	4544.9	4658.0	4554.3	4257.5
27.5°	4040.7	4054.8	4099.6	3998.3	3868.7	3894.6	4212.7	4681.6	4914.8	4775.8	4415.3
30°	4441.2	4415.3	4405.9	4292.8	4123.2	4087.8	4342.3	4881.8	5251.7	5056.2	4601.4
32.5°	4712.2	4775.8	4773.4	4617.9	4413.0	4335.2	4502.5	5070.3	5612.2	5430.8	4945.4
35°	5249.4	5315.3	5263.5	5035.0	4794.6	4639.1	4733.4	5315.3	6024.5	5883.2	5237.6
37.5°	5935.0	6090.5	5979.8	5558.0	5218.7	5049.1	5053.8	5581.6	6446.3	6330.8	5551.0
40°	6408.6	6618.3	6465.1	6069.3	5708.8	5548.6	5485.0	5897.3	6950.5	6828.0	6041.0
42.5°	6995.2	7169.6	7089.5	6698.4	6276.6	6140.0	6012.7	6425.1	7720.9	7664.4	6670.1
45°	7636.1	7718.6	7692.6	7445.2	6976.4	6929.3	6648.9	7120.1	8628.0	8651.6	7457.0
47.5°	8232.2	8276.9	8326.4	8147.4	7855.2	7895.3	7381.6	7864.6	9509.2	9664.7	8333.5
50°	8385.3	8538.5	8653.9	8774.1	8837.7	9108.6	8189.8	8778.8	10522.3	10823.9	9308.9
52.5°	8229.8	8218.0	8569.1	8946.1	9582.2	10150.0	9290.1	9914.4	11417.6	12013.7	10201.9
55°	7523.0	7499.4	8064.9	8564.4	9806.1	10729.6	10861.6	11427.0	12499.1	13274.2	11410.5
57.5°	6286.1	6140.0	6757.3	7577.2	9320.7	10793.3	12440.2	13672.4	14162.5	15046.0	13255.4
60°	4224.5	4163.2	4754.6	5732.4	7567.8	9890.9	13385.0	16483.2	16506.8	17501.0	16118.0
62.5°	2601.1	2612.9	2992.2	3725.0	5298.8	7841.1	12977.4	18728.6	18733.3	19729.9	18474.1
65°	1701.1	1708.2	2014.5	2419.7	3310.3	5317.7	10732.0	18905.3	20281.2	21207.2	19553.2
66°	1515.0	1517.3	1781.2	2111.1	2742.5	4351.7	9478.6	18445.8	20629.9	21402.7	19539.1
67.5°	1277.0	1307.6	1519.7	1774.1	2139.3	3126.5	7520.6	17117.0	20450.9	21129.4	19096.1
70°	999.0	1015.5	1182.8	1441.9	1604.5	1809.5	4469.5	13952.8	18719.1	19819.4	17484.6
72.5°	801.1	815.2	942.4	1171.0	1302.9	1192.2	2433.8	10124.1	14786.8	15960.2	13752.5
75°	676.2	678.6	739.8	921.2	1072.0	895.3	1295.9	6498.1	9488.0	10034.6	8425.4
77.5°	546.6	556.0	598.4	702.1	862.3	704.5	772.8	3640.2	4764.0	4804.1	3894.6
80°	445.3	450.0	475.9	511.3	657.3	520.7	523.1	1776.5	2042.7	1995.6	1583.3
82.5°	351.1	355.8	386.4	379.3	483.0	372.3	325.1	855.3	940.1	921.2	728.0
85°	197.9	197.9	303.9	303.9	306.3	235.6	197.9	402.9	497.1	464.1	341.6
87.5°	63.6	66.0	91.9	96.6	153.1	106.0	96.6	150.8	235.6	207.3	122.5
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°	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8	2704.8
2.5°	2761.3	2723.6	2707.1	2653.0	2638.8	2603.5	2587.0	2565.8	2558.7	2528.1	2556.4
5°	2782.5	2770.8	2704.8	2636.5	2584.6	2561.1	2525.7	2478.6	2473.9	2431.5	2426.8
7.5°	2872.1	2832.0	2716.6	2643.5	2539.9	2481.0	2403.2	2379.7	2349.0	2334.9	2365.5
10°	3011.1	2909.8	2737.8	2554.0	2426.8	2356.1	2299.5	2283.1	2285.4	2276.0	2261.8
12.5°	3110.0	3013.4	2702.4	2478.6	2313.7	2245.4	2240.6	2257.1	2283.1	2271.3	2287.8
15°	3251.4	3070.0	2676.5	2353.7	2221.8	2202.9	2200.6	2250.1	2247.7	2247.7	2245.4
17.5°	3383.3	3126.5	2582.3	2245.4	2125.2	2139.3	2155.8	2153.5	2177.0	2186.5	2202.9
20°	3550.6	3192.5	2450.3	2137.0	2052.2	2047.4	2045.1	2047.4	2071.0	2085.1	2073.4
22.5°	3696.7	3206.6	2339.6	2033.3	1965.0	1946.1	1915.5	1946.1	1934.4	1939.1	1953.2
25°	3823.9	3209.0	2181.7	1955.6	1877.8	1835.4	1811.8	1809.5	1788.3	1785.9	1785.9
27.5°	3930.0	3128.9	2042.7	1847.2	1774.1	1734.1	1731.7	1705.8	1651.6	1616.3	1621.0
30°	4012.4	3067.6	1946.1	1752.9	1682.2	1675.2	1654.0	1595.1	1524.4	1479.6	1479.6
32.5°	4158.5	2945.1	1814.2	1656.3	1621.0	1611.6	1562.1	1510.3	1444.3	1401.9	1394.8
35°	4266.9	2832.0	1727.0	1573.9	1557.4	1538.5	1496.1	1439.6	1420.7	1411.3	1418.4
37.5°	4389.4	2704.8	1621.0	1503.2	1519.7	1484.3	1434.9	1408.9	1474.9	1458.4	1465.5
40°	4585.0	2615.3	1517.3	1460.8	1477.3	1437.2	1373.6	1364.2	1446.6	1387.7	1373.6
42.5°	4943.1	2612.9	1453.7	1397.2	1408.9	1378.3	1321.8	1317.1	1350.0	1279.4	1258.2
45°	5388.4	2695.4	1406.6	1350.0	1340.6	1335.9	1317.1	1295.9	1267.6	1175.7	1152.1
47.5°	5920.9	2829.7	1397.2	1279.4	1291.1	1331.2	1307.6	1253.4	1180.4	1121.5	1109.7
50°	6566.4	3107.7	1373.6	1227.5	1248.7	1312.3	1293.5	1218.1	1152.1	1114.4	1107.4
52.5°	7280.3	3458.7	1343.0	1147.4	1194.5	1295.9	1305.3	1234.6	1138.0	1105.0	1100.3
55°	8121.4	3977.1	1307.6	1060.2	1130.9	1279.4	1305.3	1187.5	1119.1	1119.1	1114.4
57.5°	9782.5	4910.1	1234.6	980.1	1074.4	1248.7	1267.6	1189.8	1121.5	1121.5	1112.1
60°	12218.7	6366.2	1095.6	918.9	1020.2	1206.3	1239.3	1154.5	1095.6	1109.7	1107.4
62.5°	14124.8	6809.1	977.8	860.0	966.0	1128.6	1201.6	1116.8	1065.0	1116.8	1121.5
65°	14532.4	6361.4	857.6	796.4	890.6	1053.2	1147.4	1062.6	1020.2	1121.5	1126.2
66°	14386.3	6012.7	815.2	777.5	857.6	1015.5	1114.4	1043.7	996.6	1116.8	1119.1
67.5°	13736.0	5489.7	768.1	737.5	812.9	961.3	1076.7	1017.8	958.9	1102.7	1081.4
70°	12322.4	4655.6	688.0	666.8	749.2	871.8	989.6	951.9	900.0	1015.5	977.8
72.5°	9490.3	3720.3	603.2	605.5	676.2	779.9	902.4	876.5	831.7	890.6	867.0
75°	5779.5	2377.3	525.4	530.1	589.0	692.7	819.9	801.1	746.9	779.9	768.1
77.5°	2561.1	1178.0	442.9	452.4	499.5	610.2	713.9	683.3	626.7	633.8	629.1
80°	994.3	558.4	360.5	372.3	402.9	487.7	591.4	563.1	513.6	504.2	499.5
82.5°	478.3	311.0	278.0	282.7	294.5	388.8	508.9	473.6	407.6	365.2	365.2
85°	240.3	193.2	195.6	179.1	195.6	263.9	344.0	287.4	238.0	212.0	216.8
87.5°	96.6	96.6	96.6	82.5	87.2	124.9	160.2	108.4	99.0	58.9	58.9
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)