

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: P476599

Luminaire Tested: **IFLD-S-SA3D-740-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476599
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

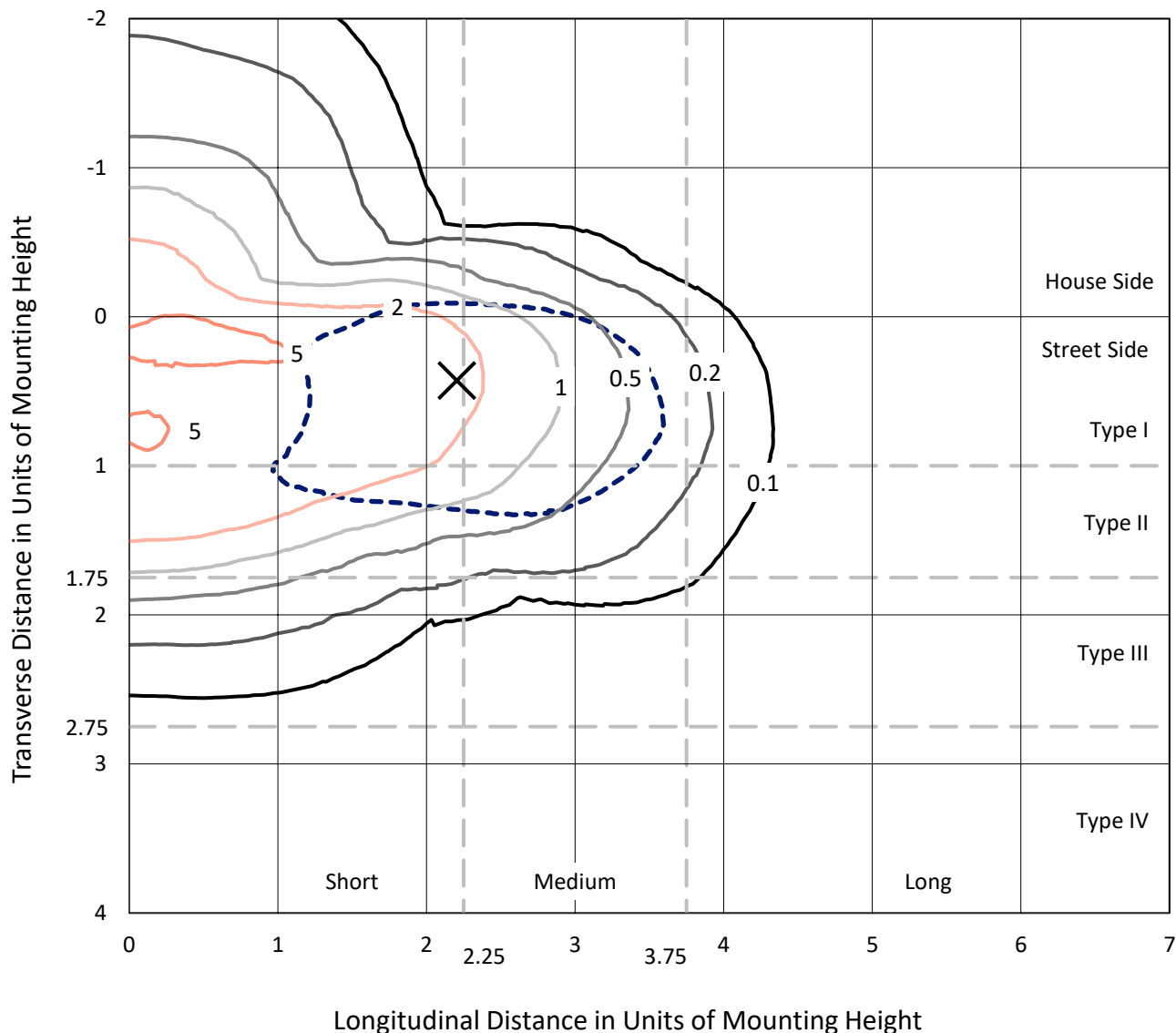
Lumens per Lamp: N/A
Luminaire Lumens: 23278.9 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

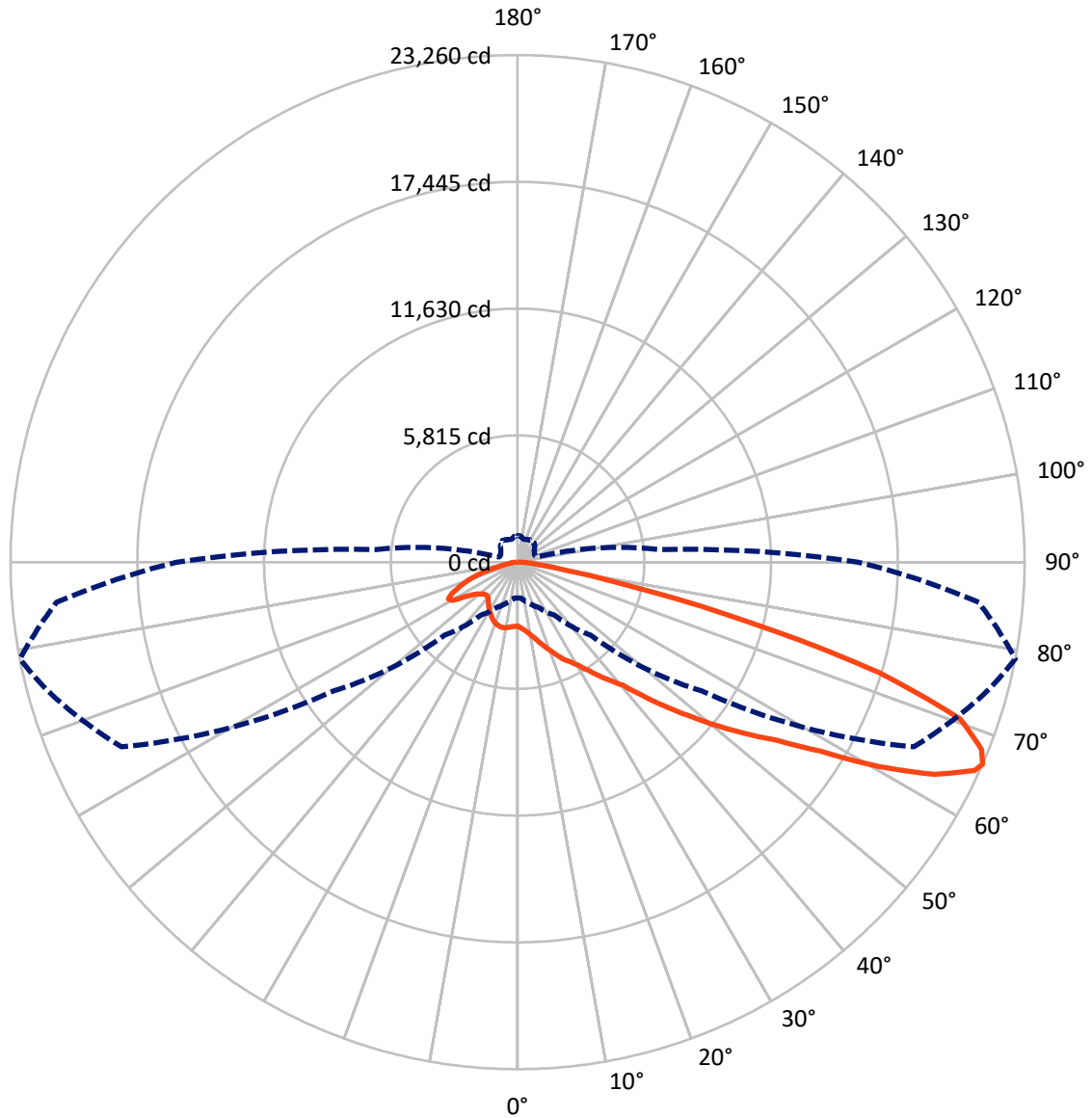
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	4700.8	0.0	4700.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	18578.0	0.0	18578.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	23278.9	0.0	23278.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.0	1.2
10°-20°	892.5	3.8
20°-30°	1532.1	6.6
30°-40°	2366.7	10.2
40°-50°	3790.9	16.3
50°-60°	5660.1	24.3
60°-70°	5815.7	25.0
70°-80°	2578.0	11.1
80°-90°	353.7	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°	23278.9	100.0
0°-180°	23278.9	100.0

Coefficient of Utilization



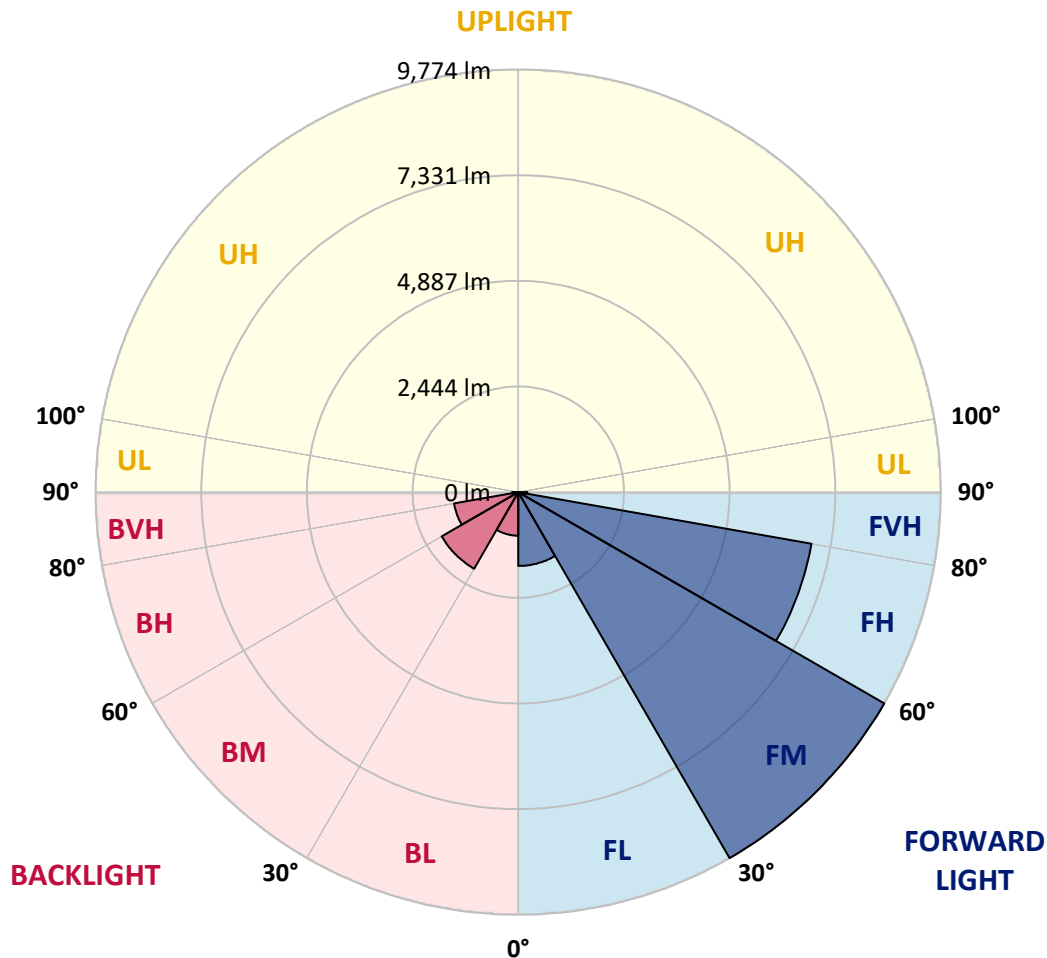
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.5	7.3			
FM (30°-60°)	9774.0	42.0			
FH (60°-80°)	6885.4	29.6			G3/7500
FVH (80°-90°)	212.2	0.9			G2/225
BL (0°-30°)	1007.1	4.3	B3/2500		
BM (30°-60°)	2043.7	8.8	B2/2500		
BH (60°-80°)	1508.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	141.6	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°	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5
2.5°	3126.4	3129.0	3129.0	3118.7	3121.3	3129.0	3100.8	3039.3	3039.3	3029.1	3011.2
5°	3318.4	3305.6	3287.7	3290.3	3280.0	3280.0	3249.3	3190.4	3139.2	3118.7	3064.9
7.5°	3344.0	3356.8	3354.3	3385.0	3400.4	3400.4	3415.7	3367.1	3290.3	3241.6	3187.8
10°	3395.2	3362.0	3359.4	3431.1	3454.1	3507.9	3569.4	3543.8	3479.7	3410.6	3338.9
12.5°	3426.0	3446.5	3446.5	3482.3	3536.1	3615.5	3723.0	3771.6	3671.8	3600.1	3490.0
15°	3472.1	3443.9	3525.8	3556.6	3659.0	3715.3	3868.9	3994.4	3927.8	3840.8	3666.7
17.5°	3492.5	3474.6	3520.7	3577.0	3751.2	3835.7	4022.6	4196.7	4140.4	4084.0	3904.8
20°	3597.5	3595.0	3615.5	3661.5	3787.0	3953.4	4186.5	4427.1	4447.6	4345.2	4102.0
22.5°	3853.6	3820.3	3820.3	3802.4	3856.1	4027.7	4342.6	4675.5	4767.7	4647.3	4324.7
25°	4089.2	4135.2	4107.1	4025.1	4004.7	4094.3	4455.3	4939.2	5062.1	4949.5	4626.9
27.5°	4391.3	4406.7	4455.3	4345.2	4204.4	4232.5	4578.2	5087.8	5341.2	5190.2	4798.4
30°	4826.6	4798.4	4788.2	4665.3	4480.9	4442.5	4719.0	5305.4	5707.4	5494.9	5000.7
32.5°	5121.0	5190.2	5187.6	5018.6	4795.9	4711.4	4893.2	5510.2	6099.2	5902.0	5374.5
35°	5704.8	5776.5	5720.2	5471.8	5210.7	5041.7	5144.1	5776.5	6547.2	6393.6	5692.0
37.5°	6449.9	6618.9	6498.6	6040.3	5671.6	5487.2	5492.3	6065.9	7005.6	6880.1	6032.6
40°	6964.6	7192.5	7026.1	6595.9	6204.1	6030.0	5960.9	6409.0	7553.5	7420.4	6565.2
42.5°	7602.2	7791.7	7704.6	7279.6	6821.2	6672.7	6534.4	6982.5	8390.8	8329.4	7248.8
45°	8298.6	8388.3	8360.1	8091.2	7581.7	7530.5	7225.8	7737.9	9376.6	9402.2	8104.0
47.5°	8946.5	8995.1	9048.9	8854.3	8536.8	8580.3	8022.1	8547.0	10334.3	10503.3	9056.6
50°	9112.9	9279.3	9404.8	9535.4	9604.5	9899.0	8900.4	9540.5	11435.3	11763.0	10116.6
52.5°	8943.9	8931.1	9312.6	9722.3	10413.6	11030.7	10096.1	10774.7	12408.3	13056.1	11087.1
55°	8175.7	8150.1	8764.7	9307.5	10656.9	11660.6	11804.0	12418.5	13583.6	14426.0	12400.6
57.5°	6831.5	6672.7	7343.6	8234.6	10129.4	11729.7	13519.5	14858.7	15391.3	16351.5	14405.5
60°	4591.0	4524.4	5167.1	6229.7	8224.4	10749.1	14546.3	17913.4	17939.0	19019.5	17516.5
62.5°	2826.8	2839.6	3251.9	4048.2	5758.6	8521.4	14103.3	20353.6	20358.7	21441.8	20077.0
65°	1848.7	1856.4	2189.2	2629.7	3597.5	5779.1	11663.2	20545.6	22041.0	23047.2	21249.8
66°	1646.4	1649.0	1935.8	2294.2	2980.4	4729.3	10301.0	20046.3	22419.9	23259.8	21234.4
67.5°	1387.8	1421.1	1651.5	1928.1	2325.0	3397.8	8173.2	18602.2	22225.3	22962.7	20753.0
70°	1085.7	1103.6	1285.4	1567.0	1743.7	1966.5	4857.3	15163.4	20343.3	21539.1	19001.6
72.5°	870.6	885.9	1024.2	1272.6	1416.0	1295.6	2645.0	11002.6	16069.8	17345.0	14945.8
75°	734.9	737.4	804.0	1001.2	1165.0	973.0	1408.3	7061.9	10311.2	10905.3	9156.4
77.5°	594.0	604.3	650.4	763.0	937.2	765.6	839.9	3956.0	5177.4	5220.9	4232.5
80°	483.9	489.1	517.2	555.6	714.4	565.9	568.4	1930.6	2220.0	2168.8	1720.7
82.5°	381.5	386.6	419.9	412.2	524.9	404.6	353.4	929.5	1021.6	1001.2	791.2
85°	215.1	215.1	330.3	330.3	332.9	256.1	215.1	437.8	540.3	504.4	371.3
87.5°	69.1	71.7	99.9	105.0	166.4	115.2	105.0	163.9	256.1	225.3	133.1
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°	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5	2939.5
2.5°	3000.9	2960.0	2942.0	2883.1	2867.8	2829.4	2811.5	2788.4	2780.7	2747.4	2778.2
5°	3024.0	3011.2	2939.5	2865.2	2808.9	2783.3	2744.9	2693.7	2688.5	2642.5	2637.3
7.5°	3121.3	3077.7	2952.3	2872.9	2760.2	2696.2	2611.7	2586.1	2552.8	2537.5	2570.8
10°	3272.3	3162.2	2975.3	2775.6	2637.3	2560.5	2499.1	2481.1	2483.7	2473.5	2458.1
12.5°	3379.9	3274.9	2936.9	2693.7	2514.4	2440.2	2435.1	2453.0	2481.1	2468.3	2486.3
15°	3533.5	3336.4	2908.8	2558.0	2414.6	2394.1	2391.5	2445.3	2442.7	2442.7	2440.2
17.5°	3676.9	3397.8	2806.3	2440.2	2309.6	2325.0	2342.9	2340.3	2365.9	2376.2	2394.1
20°	3858.7	3469.5	2662.9	2322.4	2230.2	2225.1	2222.5	2225.1	2250.7	2266.1	2253.3
22.5°	4017.5	3484.9	2542.6	2209.7	2135.5	2115.0	2081.7	2115.0	2102.2	2107.3	2122.7
25°	4155.7	3487.4	2371.0	2125.2	2040.7	1994.6	1969.0	1966.5	1943.4	1940.9	1940.9
27.5°	4270.9	3400.4	2220.0	2007.4	1928.1	1884.5	1882.0	1853.8	1794.9	1756.5	1761.6
30°	4360.6	3333.8	2115.0	1905.0	1828.2	1820.5	1797.5	1733.5	1656.7	1608.0	1608.0
32.5°	4519.3	3200.6	1971.6	1800.0	1761.6	1751.4	1697.6	1641.3	1569.6	1523.5	1515.8
35°	4637.1	3077.7	1876.9	1710.4	1692.5	1672.0	1625.9	1564.5	1544.0	1533.8	1541.4
37.5°	4770.2	2939.5	1761.6	1633.6	1651.5	1613.1	1559.4	1531.2	1602.9	1585.0	1592.6
40°	4982.8	2842.2	1649.0	1587.5	1605.4	1561.9	1492.8	1482.5	1572.2	1508.1	1492.8
42.5°	5372.0	2839.6	1579.8	1518.4	1531.2	1497.9	1436.5	1431.3	1467.2	1390.4	1367.3
45°	5855.9	2929.2	1528.6	1467.2	1456.9	1451.8	1431.3	1408.3	1377.6	1277.7	1252.1
47.5°	6434.6	3075.2	1518.4	1390.4	1403.2	1446.7	1421.1	1362.2	1282.8	1218.8	1206.0
50°	7136.2	3377.3	1492.8	1334.0	1357.1	1426.2	1405.7	1323.8	1252.1	1211.1	1203.4
52.5°	7912.0	3758.8	1459.5	1247.0	1298.2	1408.3	1418.5	1341.7	1236.7	1200.9	1195.8
55°	8826.1	4322.2	1421.1	1152.2	1229.0	1390.4	1418.5	1290.5	1216.2	1216.2	1211.1
57.5°	10631.3	5336.1	1341.7	1065.2	1167.6	1357.1	1377.6	1293.1	1218.8	1218.8	1208.6
60°	13278.9	6918.5	1190.6	998.6	1108.7	1311.0	1346.8	1254.7	1190.6	1206.0	1203.4
62.5°	15350.3	7399.9	1062.6	934.6	1049.8	1226.5	1305.9	1213.7	1157.4	1213.7	1218.8
65°	15793.3	6913.4	932.0	865.5	967.9	1144.6	1247.0	1154.8	1108.7	1218.8	1223.9
66°	15634.5	6534.4	885.9	845.0	932.0	1103.6	1211.1	1134.3	1083.1	1213.7	1216.2
67.5°	14927.8	5966.0	834.7	801.4	883.4	1044.7	1170.2	1106.1	1042.1	1198.3	1175.3
70°	13391.5	5059.6	747.7	724.6	814.2	947.4	1075.4	1034.5	978.1	1103.6	1062.6
72.5°	10313.8	4043.1	655.5	658.1	734.9	847.5	980.7	952.5	903.9	967.9	942.3
75°	6281.0	2583.6	571.0	576.1	640.1	752.8	891.1	870.6	811.7	847.5	834.7
77.5°	2783.3	1280.3	481.4	491.6	542.8	663.2	775.8	742.6	681.1	688.8	683.7
80°	1080.5	606.8	391.8	404.6	437.8	530.0	642.7	612.0	558.2	548.0	542.8
82.5°	519.8	338.0	302.1	307.3	320.1	422.5	553.1	514.7	443.0	396.9	396.9
85°	261.2	210.0	212.5	194.6	212.5	286.8	373.8	312.4	258.6	230.4	235.6
87.5°	105.0	105.0	105.0	89.6	94.7	135.7	174.1	117.8	107.5	64.0	64.0
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)