

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: P476503

Luminaire Tested: **IFLD-M-SA4E-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476503
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

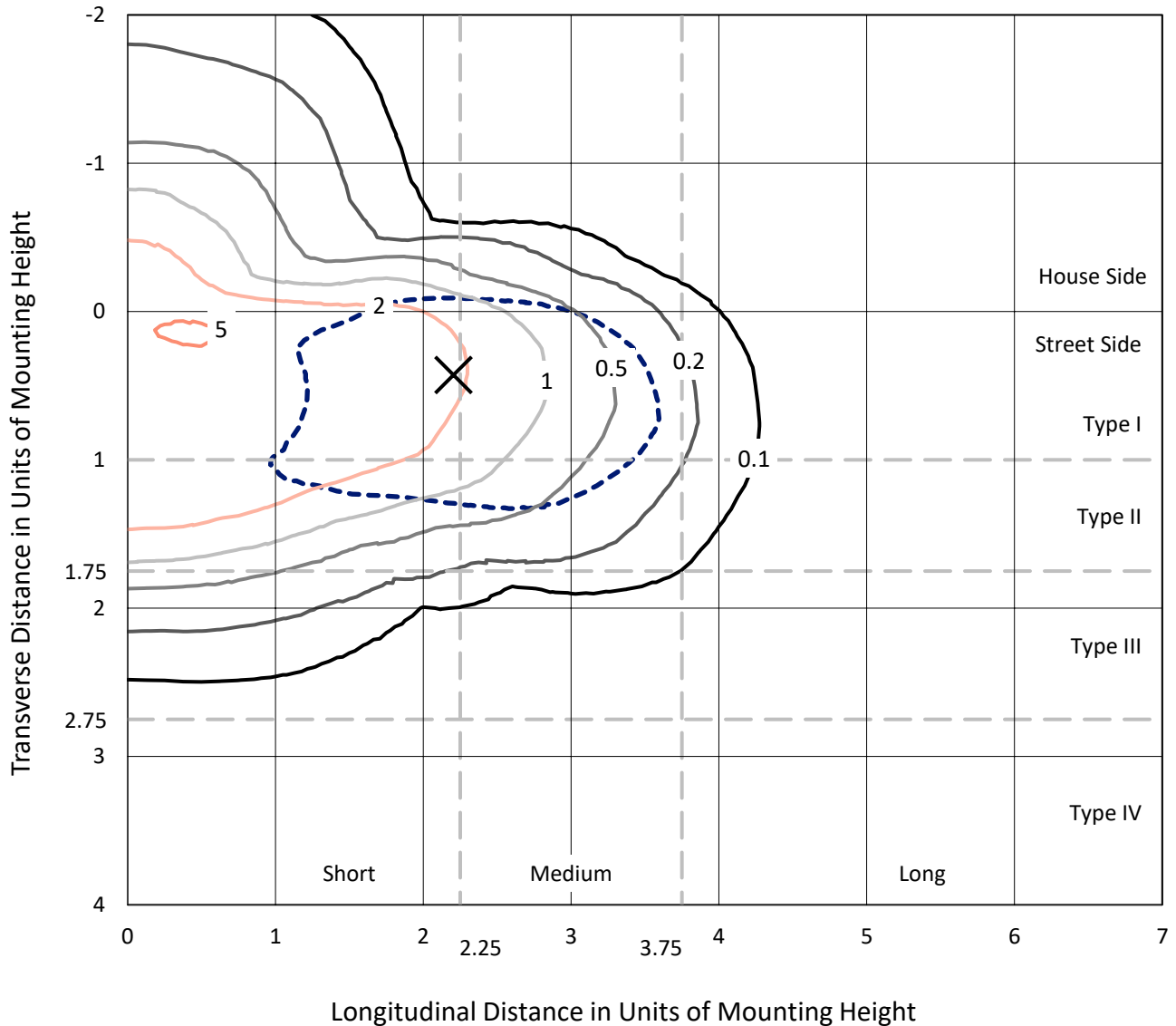
Lumens per Lamp: N/A
Luminaire Lumens: 30241.4 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

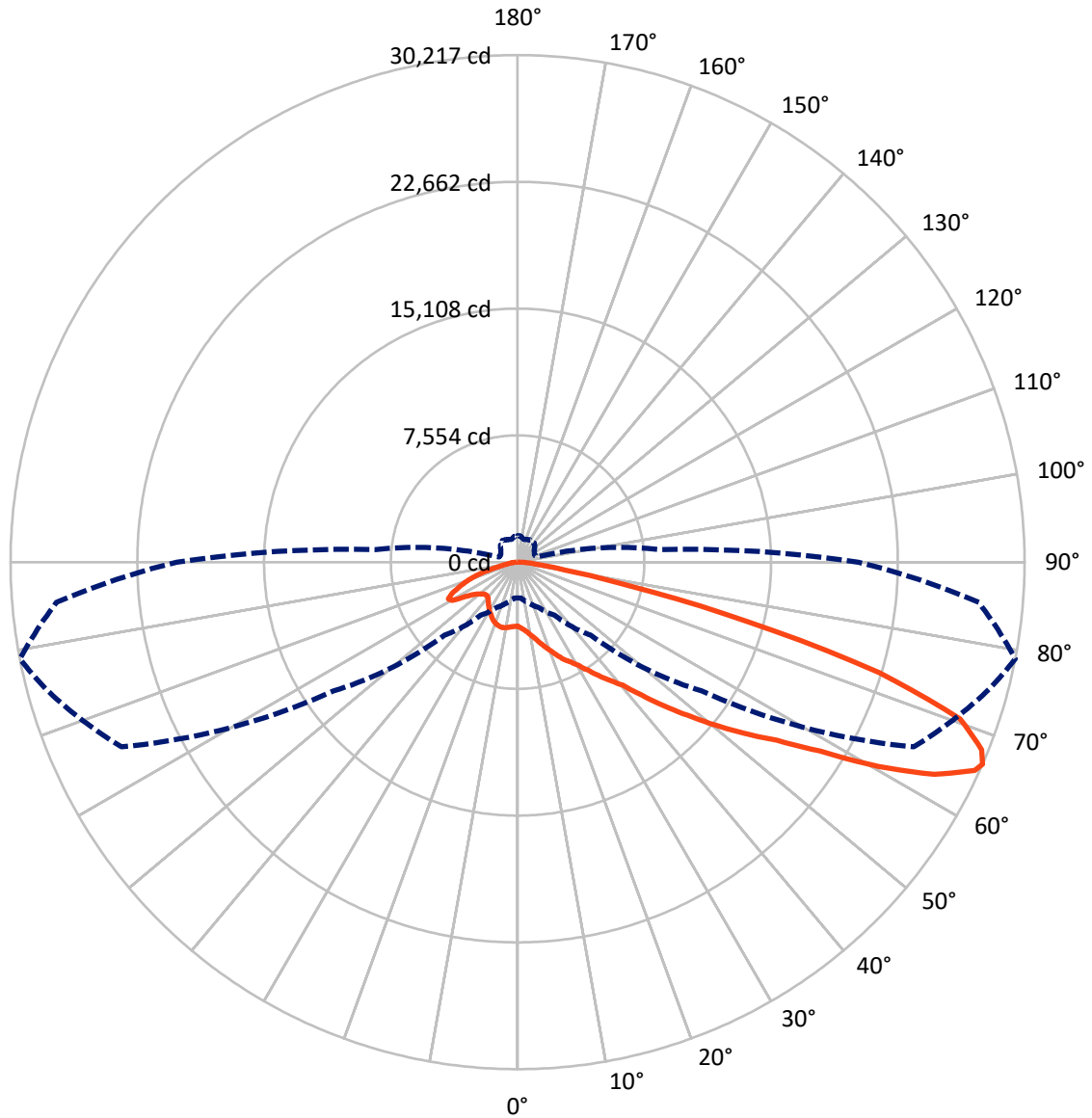
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	6106.8	0.0	6106.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	24134.5	0.0	24134.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	30241.4	0.0	30241.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.5	1.2
10°-20°	1159.5	3.8
20°-30°	1990.3	6.6
30°-40°	3074.6	10.2
40°-50°	4924.7	16.3
50°-60°	7353.0	24.3
60°-70°	7555.2	25.0
70°-80°	3349.1	11.1
80°-90°	459.5	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°	30241.4	100.0
0°-180°	30241.4	100.0

Coefficient of Utilization



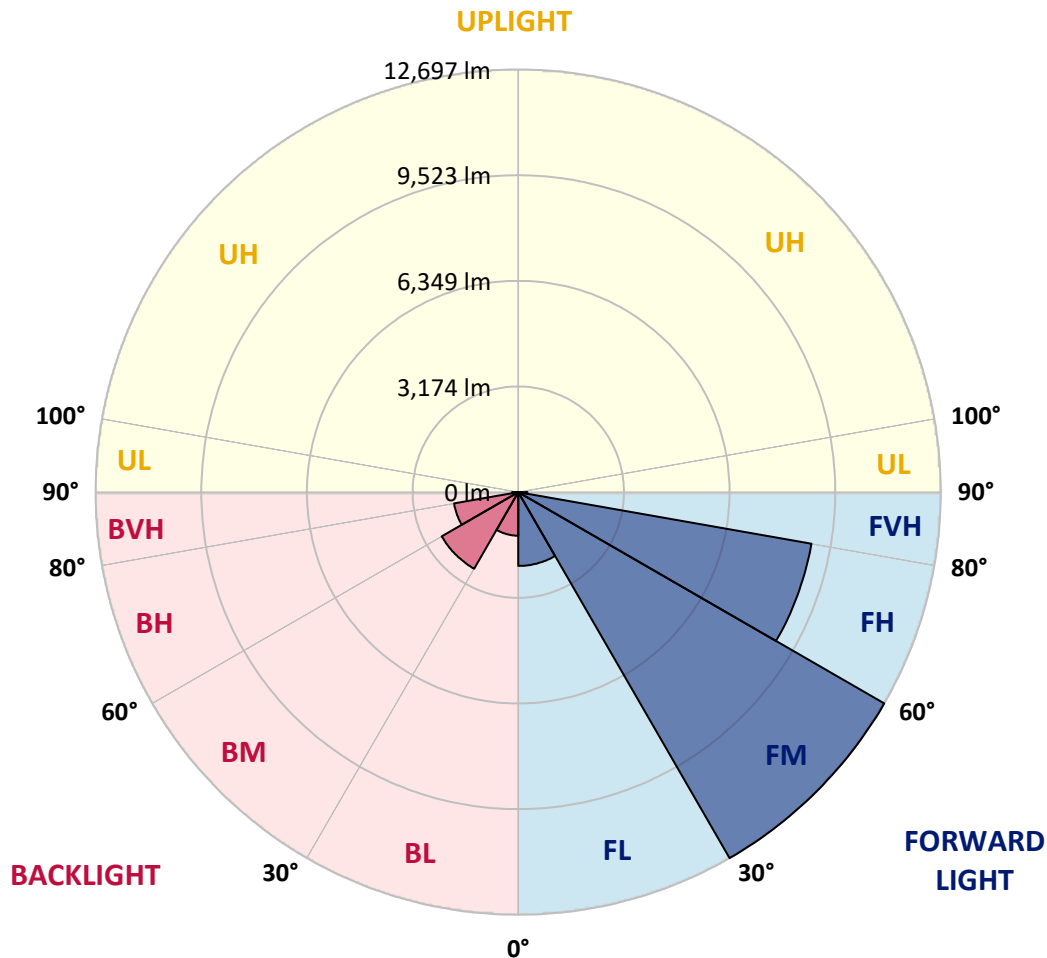
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2216.9	7.3			
FM (30°-60°)	12697.3	42.0			
FH (60°-80°)	8944.7	29.6			G4/12000
FVH (80°-90°)	275.6	0.9			G3/500
BL (0°-30°)	1308.4	4.3	B3/2500		
BM (30°-60°)	2655.0	8.8	B3/5000		
BH (60°-80°)	1959.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	183.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6
2.5°	4061.5	4064.8	4064.8	4051.5	4054.8	4064.8	4028.2	3948.4	3948.4	3935.1	3911.8
5°	4310.9	4294.3	4271.0	4274.4	4261.0	4261.0	4221.1	4144.6	4078.1	4051.5	3981.6
7.5°	4344.2	4360.8	4357.5	4397.4	4417.4	4417.4	4437.3	4374.1	4274.4	4211.2	4141.3
10°	4410.7	4367.5	4364.2	4457.3	4487.2	4557.1	4636.9	4603.7	4520.5	4430.7	4337.6
12.5°	4450.7	4477.3	4477.3	4523.8	4593.7	4696.8	4836.5	4899.7	4770.0	4676.8	4533.8
15°	4510.5	4473.9	4580.4	4620.3	4753.3	4826.5	5026.1	5189.1	5102.6	4989.5	4763.3
17.5°	4537.1	4513.9	4573.7	4646.9	4873.1	4982.9	5225.7	5451.9	5378.7	5305.5	5072.7
20°	4673.5	4670.2	4696.8	4756.7	4919.7	5135.9	5438.6	5751.3	5777.9	5644.8	5328.8
22.5°	5006.1	4962.9	4962.9	4939.6	5009.5	5232.3	5641.5	6073.9	6193.7	6037.3	5618.2
25°	5312.2	5372.0	5335.5	5229.0	5202.4	5318.8	5787.8	6416.5	6576.2	6429.8	6010.7
27.5°	5704.7	5724.6	5787.8	5644.8	5461.9	5498.4	5947.5	6609.4	6938.8	6742.5	6233.6
30°	6270.2	6233.6	6220.3	6060.6	5821.1	5771.2	6130.5	6892.2	7414.4	7138.3	6496.4
32.5°	6652.7	6742.5	6739.2	6519.6	6230.2	6120.5	6356.6	7158.3	7923.4	7667.2	6982.0
35°	7411.1	7504.2	7431.1	7108.4	6769.1	6549.6	6682.6	7504.2	8505.5	8305.9	7394.5
37.5°	8379.1	8598.6	8442.3	7846.8	7367.9	7128.4	7135.0	7880.1	9100.9	8937.9	7836.9
40°	9047.7	9343.7	9127.5	8568.7	8059.7	7833.5	7743.7	8325.8	9812.7	9639.7	8528.7
42.5°	9875.9	10122.1	10009.0	9456.8	8861.4	8668.5	8488.8	9070.9	10900.4	10820.6	9416.9
45°	10780.7	10897.1	10860.5	10511.3	9849.3	9782.8	9386.9	10052.2	12181.1	12214.3	10527.9
47.5°	11622.3	11685.5	11755.3	11502.5	11090.0	11146.6	10421.4	11103.3	13425.1	13644.7	11765.3
50°	11838.5	12054.7	12217.7	12387.3	12477.1	12859.7	11562.4	12394.0	14855.5	15281.2	13142.4
52.5°	11618.9	11602.3	12097.9	12630.1	13528.2	14329.9	13115.8	13997.3	16119.5	16961.0	14403.1
55°	10621.0	10587.8	11386.1	12091.3	13844.2	15148.2	15334.5	16132.8	17646.3	18740.6	16109.5
57.5°	8874.7	8668.5	9540.0	10697.5	13159.0	15238.0	17563.1	19302.8	19994.7	21242.0	18714.0
60°	5964.1	5877.7	6712.6	8093.0	10684.2	13964.0	18897.0	23271.1	23304.4	24708.1	22755.5
62.5°	3672.3	3688.9	4224.5	5259.0	7481.0	11070.1	18321.5	26441.1	26447.8	27854.8	26081.9
65°	2401.6	2411.6	2844.0	3416.2	4673.5	7507.6	15151.5	26690.6	28633.2	29940.4	27605.3
66°	2138.8	2142.2	2514.7	2980.4	3871.9	6143.8	13381.9	26042.0	29125.5	30216.5	27585.4
67.5°	1802.9	1846.1	2145.5	2504.7	3020.3	4414.1	10617.7	24165.9	28872.7	29830.7	26960.0
70°	1410.4	1433.7	1669.8	2035.7	2265.2	2554.6	6310.1	19698.6	26427.8	27981.2	24684.8
72.5°	1131.0	1150.9	1330.5	1653.2	1839.5	1683.1	3436.1	14293.3	20876.1	22532.7	19415.9
75°	954.7	958.0	1044.5	1300.6	1513.5	1264.0	1829.5	9174.1	13395.2	14166.9	11895.0
77.5°	771.7	785.0	844.9	991.3	1217.4	994.6	1091.0	5139.2	6725.9	6782.4	5498.4
80°	628.7	635.3	671.9	721.8	928.1	735.1	738.4	2508.1	2883.9	2817.4	2235.3
82.5°	495.6	502.3	545.5	535.5	681.9	525.6	459.0	1207.5	1327.2	1300.6	1027.8
85°	279.4	279.4	429.1	429.1	432.4	332.6	279.4	568.8	701.9	655.3	482.3
87.5°	89.8	93.1	129.7	136.4	216.2	149.7	136.4	212.9	332.6	292.7	173.0
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°	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6
2.5°	3898.5	3845.3	3822.0	3745.5	3725.5	3675.6	3652.3	3622.4	3612.4	3569.2	3609.1
5°	3928.4	3911.8	3818.6	3722.2	3649.0	3615.7	3565.8	3499.3	3492.7	3432.8	3426.1
7.5°	4054.8	3998.3	3835.3	3732.2	3585.8	3502.6	3392.9	3359.6	3316.4	3296.4	3339.7
10°	4251.1	4108.0	3865.2	3605.8	3426.1	3326.3	3246.5	3223.2	3226.6	3213.2	3193.3
12.5°	4390.8	4254.4	3815.3	3499.3	3266.5	3170.0	3163.4	3186.6	3223.2	3206.6	3229.9
15°	4590.4	4334.2	3778.7	3323.0	3136.7	3110.1	3106.8	3176.7	3173.3	3173.3	3170.0
17.5°	4776.6	4414.1	3645.7	3170.0	3000.4	3020.3	3043.6	3040.3	3073.5	3086.8	3110.1
20°	5012.8	4507.2	3459.4	3017.0	2897.2	2890.6	2887.3	2890.6	2923.9	2943.8	2927.2
22.5°	5219.0	4527.2	3303.1	2870.6	2774.2	2747.6	2704.3	2747.6	2730.9	2737.6	2757.5
25°	5398.7	4530.5	3080.2	2760.9	2651.1	2591.2	2558.0	2554.6	2524.7	2521.4	2521.4
27.5°	5548.3	4417.4	2883.9	2607.9	2504.7	2448.2	2444.9	2408.3	2331.8	2281.9	2288.5
30°	5664.8	4330.9	2747.6	2474.8	2375.0	2365.0	2335.1	2251.9	2152.1	2088.9	2088.9
32.5°	5871.0	4157.9	2561.3	2338.4	2288.5	2275.2	2205.4	2132.2	2039.0	1979.2	1969.2
35°	6024.0	3998.3	2438.2	2222.0	2198.7	2172.1	2112.2	2032.4	2005.8	1992.5	2002.5
37.5°	6197.0	3818.6	2288.5	2122.2	2145.5	2095.6	2025.7	1989.2	2082.3	2059.0	2069.0
40°	6473.1	3692.2	2142.2	2062.3	2085.6	2029.1	1939.3	1926.0	2042.4	1959.2	1939.3
42.5°	6978.7	3688.9	2052.4	1972.5	1989.2	1945.9	1866.1	1859.4	1906.0	1806.2	1776.3
45°	7607.4	3805.3	1985.8	1906.0	1892.7	1886.0	1859.4	1829.5	1789.6	1659.8	1626.6
47.5°	8359.1	3994.9	1972.5	1806.2	1822.8	1879.4	1846.1	1769.6	1666.5	1583.3	1566.7
50°	9270.5	4387.4	1939.3	1733.0	1763.0	1852.8	1826.2	1719.7	1626.6	1573.4	1563.4
52.5°	10278.4	4883.1	1896.0	1619.9	1686.5	1829.5	1842.8	1743.0	1606.6	1560.1	1553.4
55°	11465.9	5614.9	1846.1	1496.9	1596.6	1806.2	1842.8	1676.5	1580.0	1580.0	1573.4
57.5°	13811.0	6932.1	1743.0	1383.8	1516.8	1763.0	1789.6	1679.8	1583.3	1583.3	1570.0
60°	17250.4	8987.8	1546.8	1297.3	1440.3	1703.1	1749.7	1629.9	1546.8	1566.7	1563.4
62.5°	19941.4	9613.1	1380.4	1214.1	1363.8	1593.3	1696.4	1576.7	1503.5	1576.7	1583.3
65°	20516.9	8981.1	1210.8	1124.3	1257.4	1486.9	1619.9	1500.2	1440.3	1583.3	1590.0
66°	20310.7	8488.8	1150.9	1097.7	1210.8	1433.7	1573.4	1473.6	1407.0	1576.7	1580.0
67.5°	19392.6	7750.4	1084.4	1041.1	1147.6	1357.1	1520.1	1437.0	1353.8	1556.7	1526.8
70°	17396.8	6572.9	971.3	941.4	1057.8	1230.7	1397.1	1343.8	1270.7	1433.7	1380.4
72.5°	13398.5	5252.3	851.5	854.9	954.7	1101.0	1274.0	1237.4	1174.2	1257.4	1224.1
75°	8159.5	3356.3	741.8	748.4	831.6	977.9	1157.6	1131.0	1054.5	1101.0	1084.4
77.5°	3615.7	1663.2	625.4	638.7	705.2	861.5	1007.9	964.6	884.8	894.8	888.1
80°	1403.7	788.3	508.9	525.6	568.8	688.6	834.9	795.0	725.1	711.8	705.2
82.5°	675.2	439.1	392.5	399.2	415.8	548.8	718.5	668.6	575.5	515.6	515.6
85°	339.3	272.8	276.1	252.8	276.1	372.6	485.6	405.8	336.0	299.4	306.0
87.5°	136.4	136.4	136.4	116.4	123.1	176.3	226.2	153.0	139.7	83.2	83.2
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)