

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: P476464

Luminaire Tested: **IFLD-M-SA4E-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476464
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

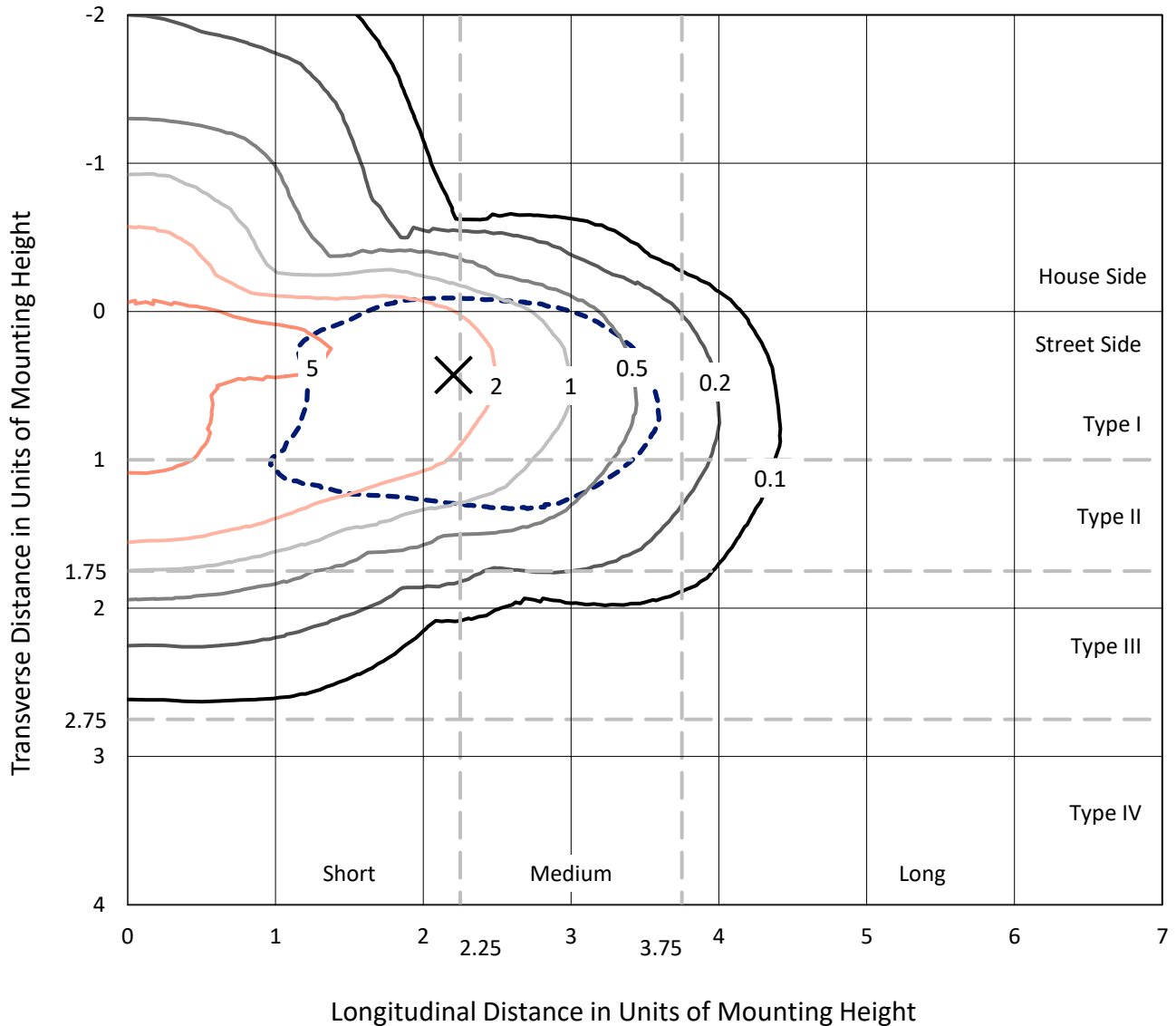
Lumens per Lamp: N/A
Luminaire Lumens: 26636.1 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

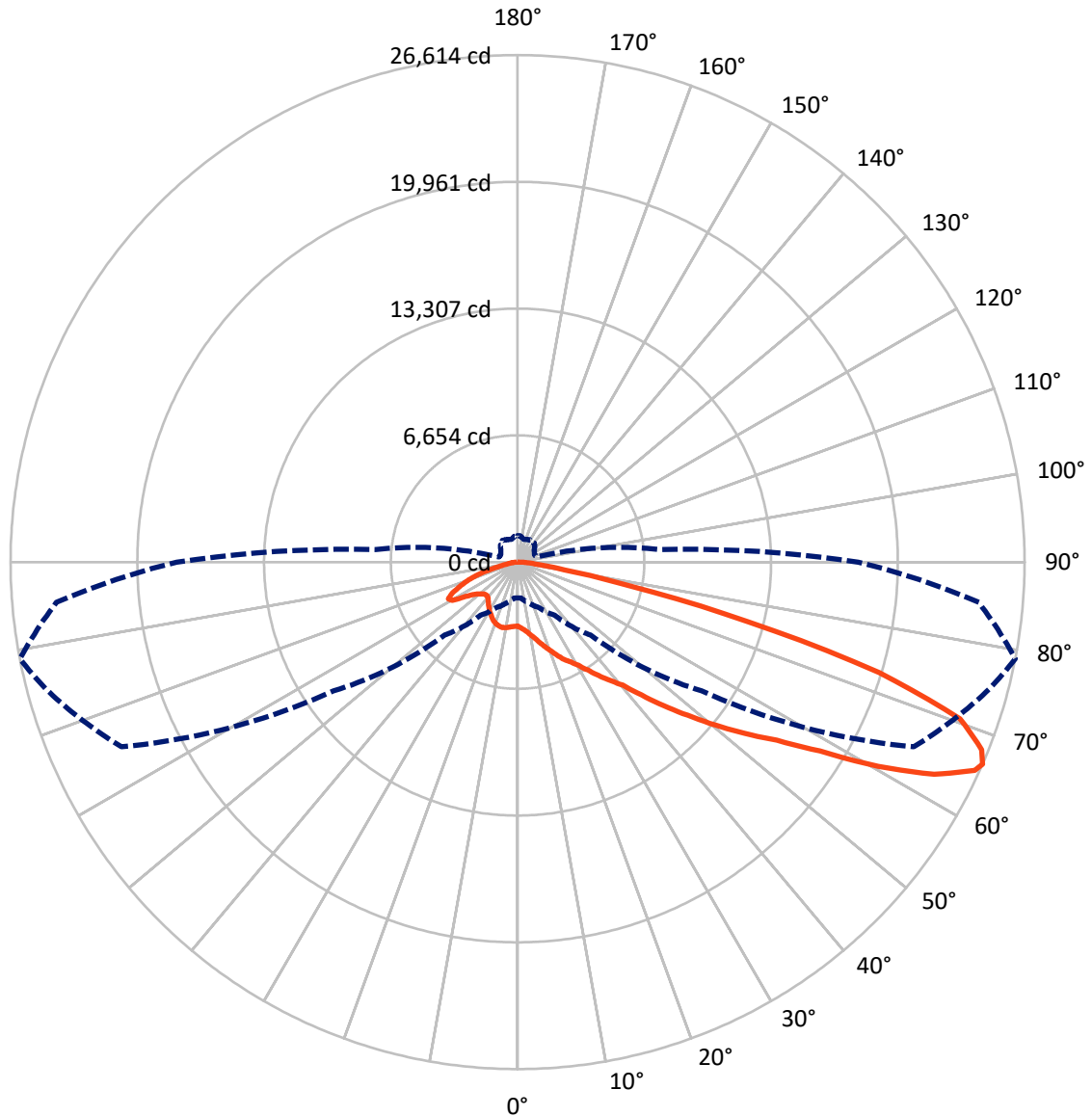
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	5378.8	0.0	5378.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	21257.3	0.0	21257.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	26636.1	0.0	26636.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.7	1.2
10°-20°	1021.3	3.8
20°-30°	1753.0	6.6
30°-40°	2708.1	10.2
40°-50°	4337.6	16.3
50°-60°	6476.4	24.3
60°-70°	6654.5	25.0
70°-80°	2949.8	11.1
80°-90°	404.7	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°	26636.1	100.0
0°-180°	26636.1	100.0

Coefficient of Utilization



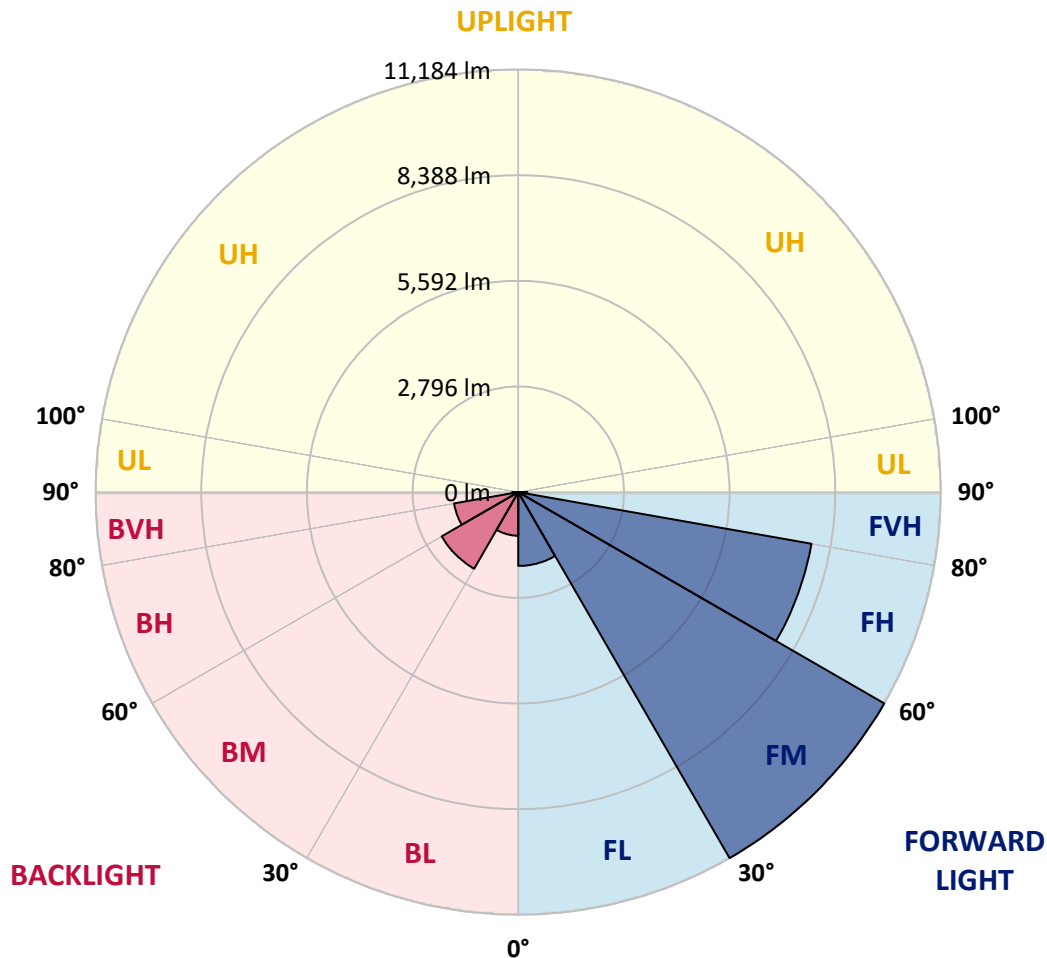
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.6	7.3			
FM (30°-60°)	11183.6	42.0			
FH (60°-80°)	7878.4	29.6			G4/12000
FVH (80°-90°)	242.7	0.9			G3/500
BL (0°-30°)	1152.4	4.3	B3/2500		
BM (30°-60°)	2338.5	8.8	B2/2500		
BH (60°-80°)	1725.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	162.0	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°	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4
2.5°	3577.3	3580.2	3580.2	3568.5	3571.4	3580.2	3548.0	3477.7	3477.7	3465.9	3445.4
5°	3797.0	3782.4	3761.9	3764.8	3753.1	3753.1	3717.9	3650.5	3591.9	3568.5	3507.0
7.5°	3826.3	3841.0	3838.0	3873.2	3890.8	3890.8	3908.3	3852.7	3764.8	3709.1	3647.6
10°	3884.9	3846.8	3843.9	3925.9	3952.3	4013.8	4084.1	4054.8	3981.6	3902.5	3820.5
12.5°	3920.1	3943.5	3943.5	3984.5	4046.0	4136.9	4259.9	4315.6	4201.3	4119.3	3993.3
15°	3972.8	3940.6	4034.3	4069.5	4186.7	4251.1	4426.9	4570.5	4494.3	4394.7	4195.5
17.5°	3996.2	3975.7	4028.5	4092.9	4292.1	4388.8	4602.7	4801.9	4737.5	4673.0	4467.9
20°	4116.4	4113.4	4136.9	4189.6	4333.2	4523.6	4790.2	5065.6	5089.1	4971.9	4693.5
22.5°	4409.3	4371.3	4371.3	4350.7	4412.3	4608.6	4968.9	5349.8	5455.3	5317.6	4948.4
25°	4678.9	4731.6	4699.4	4605.6	4582.2	4684.7	5097.8	5651.6	5792.2	5663.3	5294.1
27.5°	5024.6	5042.2	5097.8	4971.9	4810.7	4842.9	5238.5	5821.5	6111.5	5938.7	5490.4
30°	5522.7	5490.4	5478.7	5338.1	5127.1	5083.2	5399.6	6070.5	6530.5	6287.3	5721.9
32.5°	5859.6	5938.7	5935.8	5742.4	5487.5	5390.8	5598.8	6304.9	6978.8	6753.2	6149.6
35°	6527.6	6609.6	6545.2	6261.0	5962.1	5768.8	5886.0	6609.6	7491.5	7315.7	6512.9
37.5°	7380.1	7573.5	7435.8	6911.4	6489.5	6278.5	6284.4	6940.7	8015.9	7872.4	6902.6
40°	7969.0	8229.8	8039.4	7547.1	7098.9	6899.7	6820.6	7333.3	8642.9	8490.5	7512.0
42.5°	8698.6	8915.4	8815.7	8329.4	7805.0	7635.0	7476.8	7989.5	9600.9	9530.6	8294.2
45°	9495.5	9598.0	9565.8	9258.1	8675.1	8616.5	8267.9	8853.8	10728.9	10758.2	9272.8
47.5°	10236.7	10292.4	10353.9	10131.2	9767.9	9817.7	9179.0	9779.6	11824.6	12018.0	10362.7
50°	10427.1	10617.6	10761.1	10910.5	10989.7	11326.6	10184.0	10916.4	13084.5	13459.5	11575.6
52.5°	10233.8	10219.1	10655.7	11124.4	11915.5	12621.5	11552.2	12328.6	14197.8	14939.0	12686.0
55°	9354.8	9325.5	10028.7	10649.8	12193.8	13342.3	13506.3	14209.5	15542.6	16506.5	14189.0
57.5°	7816.7	7635.0	8402.6	9422.2	11590.3	13421.4	15469.3	17001.6	17611.0	18709.7	16483.0
60°	5253.1	5176.9	5912.3	7128.2	9410.5	12299.3	16644.2	20496.8	20526.1	21762.5	20042.7
62.5°	3234.5	3249.1	3720.8	4632.0	6589.1	9750.4	16137.3	23288.9	23294.8	24534.1	22972.5
65°	2115.3	2124.1	2505.0	3008.9	4116.4	6612.5	13345.2	23508.7	25219.7	26371.1	24314.4
66°	1883.9	1886.8	2214.9	2625.1	3410.3	5411.3	11786.6	22937.4	25653.3	26614.2	24296.8
67.5°	1587.9	1626.0	1889.7	2206.1	2660.3	3887.8	9351.9	21284.9	25430.6	26274.4	23746.0
70°	1242.2	1262.7	1470.8	1793.0	1995.2	2250.1	5557.8	17350.2	23277.2	24645.4	21742.0
72.5°	996.1	1013.7	1171.9	1456.1	1620.2	1482.5	3026.5	12589.3	18387.4	19846.4	17101.2
75°	840.9	843.8	920.0	1145.5	1333.1	1113.3	1611.4	8080.4	11798.3	12478.0	10476.9
77.5°	679.7	691.4	744.2	873.1	1072.3	876.0	961.0	4526.5	5924.0	5973.8	4842.9
80°	553.7	559.6	591.8	635.8	817.4	647.5	650.4	2209.1	2540.1	2481.5	1968.8
82.5°	436.5	442.4	480.5	471.7	600.6	462.9	404.3	1063.5	1169.0	1145.5	905.3
85°	246.1	246.1	377.9	377.9	380.9	293.0	246.1	501.0	618.2	577.2	424.8
87.5°	79.1	82.0	114.3	120.1	190.4	131.8	120.1	187.5	293.0	257.8	152.3
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°	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4	3363.4
2.5°	3433.7	3386.8	3366.3	3298.9	3281.4	3237.4	3216.9	3190.5	3181.8	3143.7	3178.8
5°	3460.1	3445.4	3363.4	3278.4	3214.0	3184.7	3140.7	3082.1	3076.3	3023.5	3017.7
7.5°	3571.4	3521.6	3378.1	3287.2	3158.3	3085.1	2988.4	2959.1	2921.0	2903.4	2941.5
10°	3744.3	3618.3	3404.4	3175.9	3017.7	2929.8	2859.5	2839.0	2841.9	2830.2	2812.6
12.5°	3867.3	3747.2	3360.5	3082.1	2877.1	2792.1	2786.2	2806.7	2839.0	2824.3	2844.8
15°	4043.1	3817.5	3328.2	2926.9	2762.8	2739.4	2736.4	2798.0	2795.0	2795.0	2792.1
17.5°	4207.2	3887.8	3211.1	2792.1	2642.7	2660.3	2680.8	2677.8	2707.1	2718.8	2739.4
20°	4415.2	3969.9	3047.0	2657.3	2551.8	2546.0	2543.1	2546.0	2575.3	2592.9	2578.2
22.5°	4596.8	3987.4	2909.3	2528.4	2443.4	2420.0	2381.9	2420.0	2405.4	2411.2	2428.8
25°	4755.1	3990.4	2713.0	2431.7	2335.0	2282.3	2253.0	2250.1	2223.7	2220.8	2220.8
27.5°	4886.9	3890.8	2540.1	2297.0	2206.1	2156.3	2153.4	2121.2	2053.8	2009.8	2015.7
30°	4989.4	3814.6	2420.0	2179.8	2091.9	2083.1	2056.7	1983.5	1895.6	1839.9	1839.9
32.5°	5171.1	3662.2	2255.9	2059.6	2015.7	2004.0	1942.5	1878.0	1796.0	1743.2	1734.4
35°	5305.9	3521.6	2147.5	1957.1	1936.6	1913.2	1860.4	1790.1	1766.7	1754.9	1763.7
37.5°	5458.2	3363.4	2015.7	1869.2	1889.7	1845.8	1784.2	1752.0	1834.1	1813.5	1822.3
40°	5701.4	3252.1	1886.8	1816.5	1837.0	1787.2	1708.1	1696.4	1798.9	1725.6	1708.1
42.5°	6146.7	3249.1	1807.7	1737.4	1752.0	1713.9	1643.6	1637.8	1678.8	1590.9	1564.5
45°	6700.4	3351.7	1749.1	1678.8	1667.1	1661.2	1637.8	1611.4	1576.2	1462.0	1432.7
47.5°	7362.6	3518.7	1737.4	1590.9	1605.5	1655.3	1626.0	1558.6	1467.8	1394.6	1379.9
50°	8165.3	3864.4	1708.1	1526.4	1552.8	1631.9	1608.5	1514.7	1432.7	1385.8	1377.0
52.5°	9053.1	4300.9	1670.0	1426.8	1485.4	1611.4	1623.1	1535.2	1415.1	1374.1	1368.2
55°	10099.0	4945.5	1626.0	1318.4	1406.3	1590.9	1623.1	1476.6	1391.7	1391.7	1385.8
57.5°	12164.5	6105.7	1535.2	1218.8	1336.0	1552.8	1576.2	1479.5	1394.6	1394.6	1382.9
60°	15193.9	7916.3	1362.4	1142.6	1268.6	1500.1	1541.1	1435.6	1362.4	1379.9	1377.0
62.5°	17564.1	8467.1	1215.9	1069.4	1201.2	1403.4	1494.2	1388.7	1324.3	1388.7	1394.6
65°	18071.0	7910.4	1066.4	990.3	1107.5	1309.6	1426.8	1321.3	1268.6	1394.6	1400.4
66°	17889.3	7476.8	1013.7	966.8	1066.4	1262.7	1385.8	1297.9	1239.3	1388.7	1391.7
67.5°	17080.7	6826.4	955.1	917.0	1010.8	1195.4	1338.9	1265.7	1192.4	1371.1	1344.8
70°	15322.8	5789.3	855.5	829.1	931.7	1084.0	1230.5	1183.6	1119.2	1262.7	1215.9
72.5°	11801.2	4626.1	750.0	753.0	840.9	969.8	1122.1	1089.9	1034.2	1107.5	1078.2
75°	7186.8	2956.2	653.3	659.2	732.4	861.4	1019.6	996.1	928.7	969.8	955.1
77.5°	3184.7	1464.9	550.8	562.5	621.1	758.8	887.7	849.6	779.3	788.1	782.3
80°	1236.4	694.4	448.3	462.9	501.0	606.5	735.4	700.2	638.7	627.0	621.1
82.5°	594.7	386.7	345.7	351.6	366.2	483.4	632.8	588.9	506.9	454.1	454.1
85°	298.8	240.2	243.2	222.7	243.2	328.1	427.7	357.4	295.9	263.7	269.5
87.5°	120.1	120.1	120.1	102.5	108.4	155.3	199.2	134.8	123.1	73.2	73.2
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)