

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: P476504

Luminaire Tested: **IFLD-L-SA7A-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476504  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

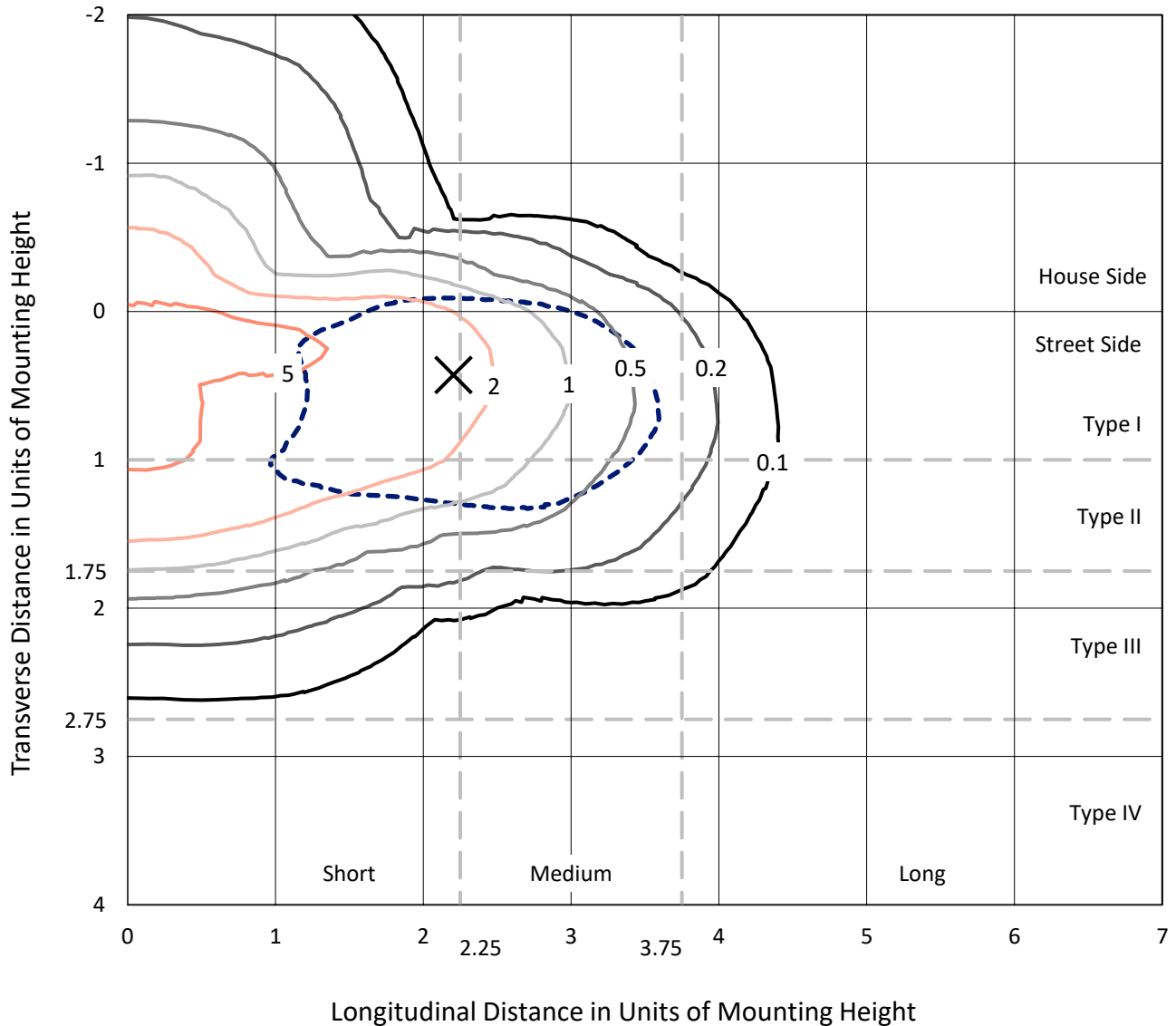
Lumens per Lamp: N/A  
Luminaire Lumens: 26145 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6  
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

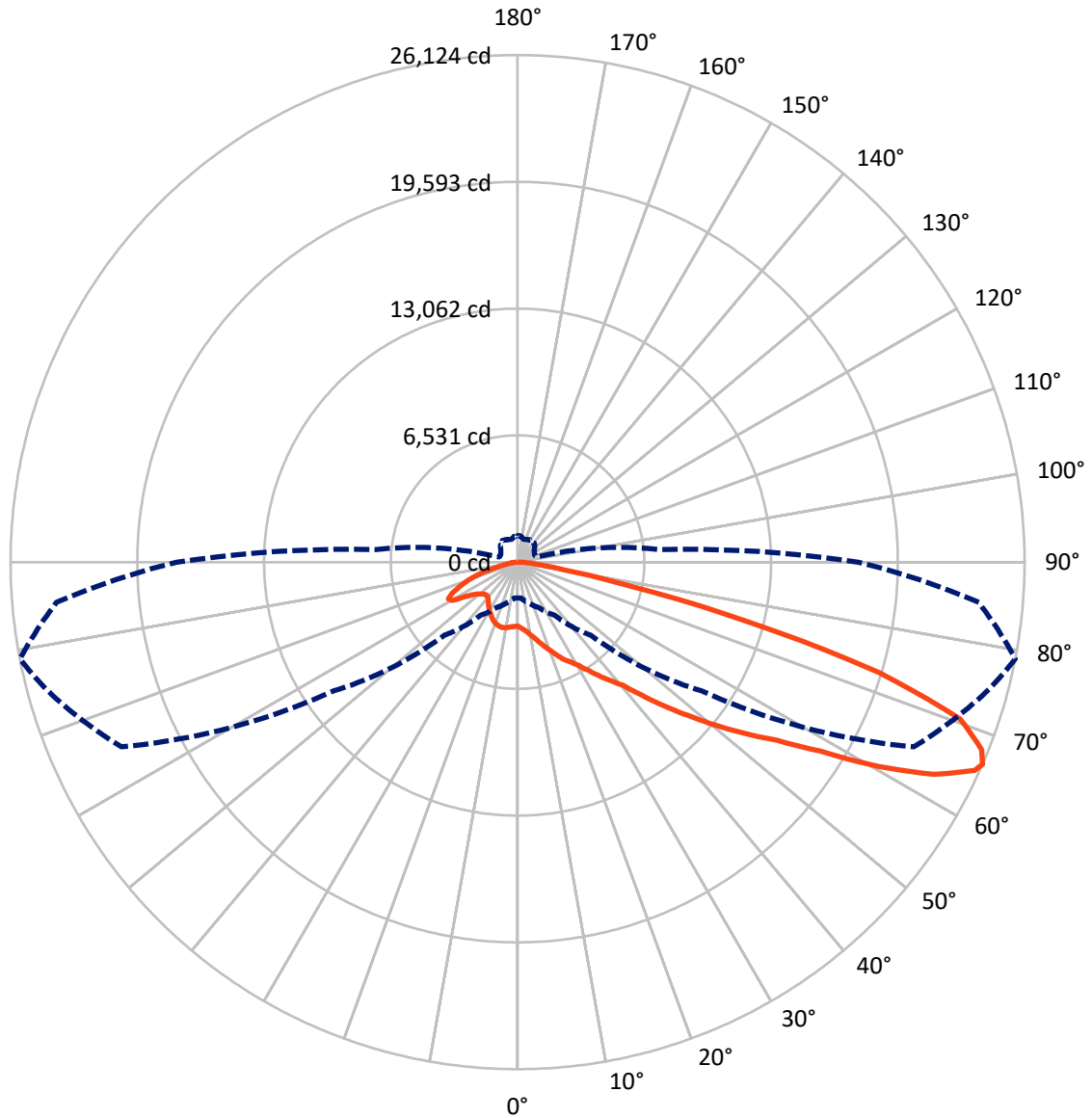
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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
<b>House Side</b>	Lumens	5279.6	0.0	5279.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	20865.4	0.0	20865.4
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	26145.0	0.0	26145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.6	1.2
10°-20°	1002.4	3.8
20°-30°	1720.7	6.6
30°-40°	2658.1	10.2
40°-50°	4257.7	16.3
50°-60°	6357.0	24.3
60°-70°	6531.8	25.0
70°-80°	2895.5	11.1
80°-90°	397.3	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°	26145.0	100.0
0°-180°	26145.0	100.0

**Coefficient of Utilization**

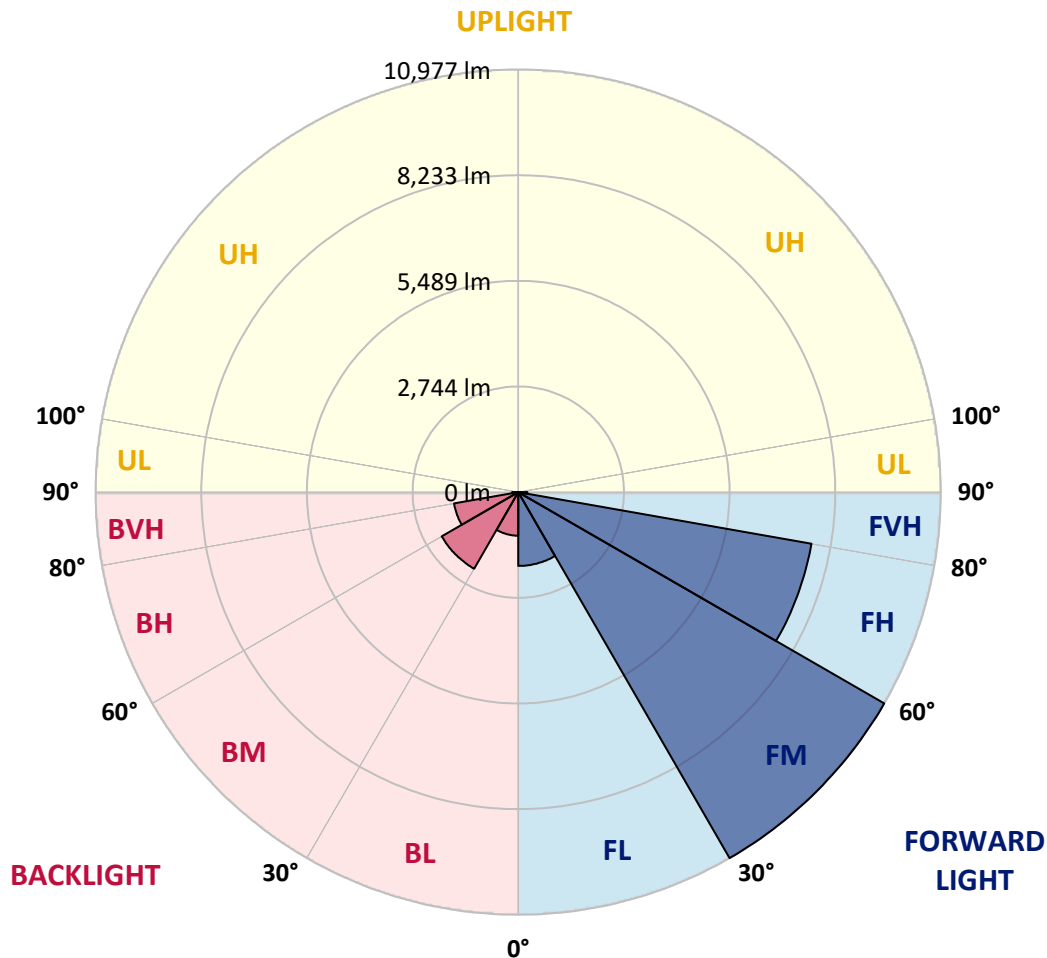


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.6	7.3			
FM (30°-60°)	10977.4	42.0			
FH (60°-80°)	7733.1	29.6			G4/12000
FVH (80°-90°)	238.3	0.9			G3/500
BL (0°-30°)	1131.2	4.3	B3/2500		
BM (30°-60°)	2295.3	8.8	B2/2500		
BH (60°-80°)	1694.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	159.0	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°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3511.3	3514.2	3514.2	3502.7	3505.6	3514.2	3482.6	3413.5	3413.5	3402.0	3381.9
5°	3727.0	3712.6	3692.5	3695.4	3683.9	3683.9	3649.4	3583.2	3525.7	3502.7	3442.3
7.5°	3755.8	3770.1	3767.3	3801.8	3819.0	3819.0	3836.3	3781.6	3695.4	3640.7	3580.3
10°	3813.3	3775.9	3773.0	3853.5	3879.4	3939.8	4008.8	3980.1	3908.2	3830.5	3750.0
12.5°	3847.8	3870.8	3870.8	3911.1	3971.4	4060.6	4181.4	4236.0	4123.9	4043.3	3919.7
15°	3899.6	3867.9	3959.9	3994.5	4109.5	4172.8	4345.3	4486.2	4411.4	4313.7	4118.1
17.5°	3922.6	3902.4	3954.2	4017.5	4213.0	4307.9	4517.8	4713.4	4650.1	4586.9	4385.6
20°	4040.5	4037.6	4060.6	4112.4	4253.3	4440.2	4701.9	4972.2	4995.2	4880.2	4607.0
22.5°	4328.0	4290.7	4290.7	4270.5	4330.9	4523.6	4877.3	5251.2	5354.7	5219.5	4857.2
25°	4592.6	4644.4	4612.7	4520.7	4497.7	4598.4	5003.9	5547.4	5685.4	5558.9	5196.5
27.5°	4932.0	4949.2	5003.9	4880.2	4722.0	4753.7	5141.9	5714.2	5998.9	5829.2	5389.2
30°	5420.8	5389.2	5377.7	5239.7	5032.6	4989.5	5300.1	5958.6	6410.1	6171.4	5616.4
32.5°	5751.6	5829.2	5826.3	5636.5	5386.3	5291.4	5495.6	6188.7	6850.1	6628.7	6036.3
35°	6407.2	6487.8	6424.5	6145.5	5852.2	5662.4	5777.4	6487.8	7353.4	7180.8	6392.9
37.5°	7244.1	7433.9	7298.7	6784.0	6369.8	6162.8	6168.5	6812.7	7868.1	7727.2	6775.3
40°	7822.1	8078.1	7891.1	7408.0	6968.0	6772.5	6694.8	7198.1	8483.5	8334.0	7373.5
42.5°	8538.2	8751.0	8653.2	8175.8	7661.1	7494.3	7339.0	7842.2	9423.9	9354.9	8141.3
45°	9320.4	9421.0	9389.4	9087.5	8515.2	8457.7	8115.4	8690.6	10531.1	10559.9	9101.8
47.5°	10048.0	10102.6	10163.0	9944.4	9587.8	9636.7	9009.8	9599.3	11606.6	11796.4	10171.6
50°	10234.9	10421.8	10562.7	10709.4	10787.0	11117.8	9996.2	10715.1	12843.2	13211.3	11362.2
52.5°	10045.1	10030.7	10459.2	10919.3	11695.8	12388.8	11339.2	12101.3	13936.0	14663.6	12452.1
55°	9182.4	9153.6	9843.8	10453.5	11969.0	13096.3	13257.3	13947.5	15256.0	16202.1	13927.4
57.5°	7672.6	7494.3	8247.7	9248.5	11376.6	13173.9	15184.1	16688.1	17286.3	18364.7	16179.1
60°	5156.3	5081.5	5803.3	6996.8	9237.0	12072.5	16337.3	20118.9	20147.7	21361.3	19673.2
62.5°	3174.9	3189.2	3652.2	4546.6	6467.6	9570.6	15839.8	22859.6	22865.3	24081.8	22549.0
65°	2076.3	2084.9	2458.8	2953.4	4040.5	6490.6	13099.2	23075.2	24754.7	25884.9	23866.1
66°	1849.1	1852.0	2174.1	2576.7	3347.4	5311.6	11569.3	22514.5	25180.3	26123.6	23848.8
67.5°	1558.7	1596.1	1854.9	2165.5	2611.2	3816.2	9179.5	20892.5	24961.7	25790.0	23308.2
70°	1219.3	1239.5	1443.6	1760.0	1958.4	2208.6	5455.4	17030.4	22848.1	24191.0	21341.1
72.5°	977.8	995.0	1150.3	1429.3	1590.3	1455.1	2970.7	12357.2	18048.4	19480.5	16785.9
75°	825.3	828.2	903.0	1124.4	1308.5	1092.8	1581.7	7931.4	11580.8	12247.9	10283.8
77.5°	667.2	678.7	730.4	857.0	1052.5	859.9	943.3	4443.1	5814.8	5863.7	4753.7
80°	543.5	549.3	580.9	624.0	802.3	635.5	638.4	2168.3	2493.3	2435.8	1932.5
82.5°	428.5	434.2	471.6	463.0	589.5	454.4	396.9	1043.9	1147.4	1124.4	888.6
85°	241.6	241.6	371.0	371.0	373.9	287.6	241.6	491.8	606.8	566.5	417.0
87.5°	77.6	80.5	112.2	117.9	186.9	129.4	117.9	184.0	287.6	253.1	149.5
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°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3370.4	3324.4	3304.3	3238.1	3220.9	3177.7	3157.6	3131.7	3123.1	3085.7	3120.2
5°	3396.3	3381.9	3301.4	3218.0	3154.7	3126.0	3082.8	3025.3	3019.6	2967.8	2962.1
7.5°	3505.6	3456.7	3315.8	3226.6	3100.1	3028.2	2933.3	2904.5	2867.2	2849.9	2887.3
10°	3675.2	3551.6	3341.7	3117.3	2962.1	2875.8	2806.8	2786.6	2789.5	2778.0	2760.7
12.5°	3796.0	3678.1	3298.5	3025.3	2824.0	2740.6	2734.9	2755.0	2786.6	2772.2	2792.4
15°	3968.6	3747.1	3266.9	2872.9	2711.9	2688.9	2686.0	2746.4	2743.5	2743.5	2740.6
17.5°	4129.6	3816.2	3151.9	2740.6	2594.0	2611.2	2631.3	2628.5	2657.2	2668.7	2688.9
20°	4333.8	3896.7	2990.8	2608.3	2504.8	2499.1	2496.2	2499.1	2527.8	2545.1	2530.7
22.5°	4512.1	3913.9	2855.6	2481.8	2398.4	2375.4	2338.0	2375.4	2361.0	2366.8	2384.0
25°	4667.4	3916.8	2663.0	2386.9	2292.0	2240.2	2211.5	2208.6	2182.7	2179.8	2179.8
27.5°	4796.8	3819.0	2493.3	2254.6	2165.5	2116.6	2113.7	2082.1	2015.9	1972.8	1978.5
30°	4897.4	3744.3	2375.4	2139.6	2053.3	2044.7	2018.8	1946.9	1860.6	1806.0	1806.0
32.5°	5075.7	3594.7	2214.3	2021.7	1978.5	1967.0	1906.6	1843.4	1762.9	1711.1	1702.5
35°	5208.0	3456.7	2107.9	1921.0	1900.9	1877.9	1826.1	1757.1	1734.1	1722.6	1731.2
37.5°	5357.6	3301.4	1978.5	1834.7	1854.9	1811.7	1751.3	1719.7	1800.2	1780.1	1788.7
40°	5596.3	3192.1	1852.0	1783.0	1803.1	1754.2	1676.6	1665.1	1765.7	1693.8	1676.6
42.5°	6033.4	3189.2	1774.4	1705.3	1719.7	1682.3	1613.3	1607.6	1647.8	1561.5	1535.7
45°	6576.9	3289.9	1716.8	1647.8	1636.3	1630.6	1607.6	1581.7	1547.2	1435.0	1406.3
47.5°	7226.8	3453.8	1705.3	1561.5	1575.9	1624.8	1596.1	1529.9	1440.8	1368.9	1354.5
50°	8014.8	3793.2	1676.6	1498.3	1524.2	1601.8	1578.8	1486.8	1406.3	1360.2	1351.6
52.5°	8886.2	4221.6	1639.2	1400.5	1458.0	1581.7	1593.2	1506.9	1389.0	1348.7	1343.0
55°	9912.8	4854.3	1596.1	1294.1	1380.4	1561.5	1593.2	1449.4	1366.0	1366.0	1360.2
57.5°	11940.2	5993.1	1506.9	1196.3	1311.4	1524.2	1547.2	1452.3	1368.9	1368.9	1357.4
60°	14913.8	7770.4	1337.2	1121.6	1245.2	1472.4	1512.7	1409.1	1337.2	1354.5	1351.6
62.5°	17240.3	8311.0	1193.4	1049.7	1179.1	1377.5	1466.6	1363.1	1299.9	1363.1	1368.9
65°	17737.8	7764.6	1046.8	972.0	1087.0	1285.5	1400.5	1297.0	1245.2	1368.9	1374.6
66°	17559.5	7339.0	995.0	949.0	1046.8	1239.5	1360.2	1274.0	1216.5	1363.1	1366.0
67.5°	16765.8	6700.6	937.5	900.1	992.1	1173.3	1314.2	1242.3	1170.4	1345.9	1320.0
70°	15040.3	5682.5	839.7	813.8	914.5	1064.0	1207.8	1161.8	1098.5	1239.5	1193.4
72.5°	11583.6	4540.9	736.2	739.1	825.3	951.9	1101.4	1069.8	1015.1	1087.0	1058.3
75°	7054.3	2901.7	641.3	647.0	718.9	845.5	1000.8	977.8	911.6	951.9	937.5
77.5°	3126.0	1437.9	540.6	552.1	609.7	744.8	871.4	834.0	765.0	773.6	767.8
80°	1213.6	681.6	440.0	454.4	491.8	595.3	721.8	687.3	626.9	615.4	609.7
82.5°	583.8	379.6	339.3	345.1	359.5	474.5	621.2	578.0	497.5	445.7	445.7
85°	293.3	235.8	238.7	218.6	238.7	322.1	419.9	350.8	290.5	258.8	264.6
87.5°	117.9	117.9	117.9	100.7	106.4	152.4	195.6	132.3	120.8	71.9	71.9
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)