

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: P476746

Luminaire Tested: **IFLD-L-SA8D-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476746  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-827-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

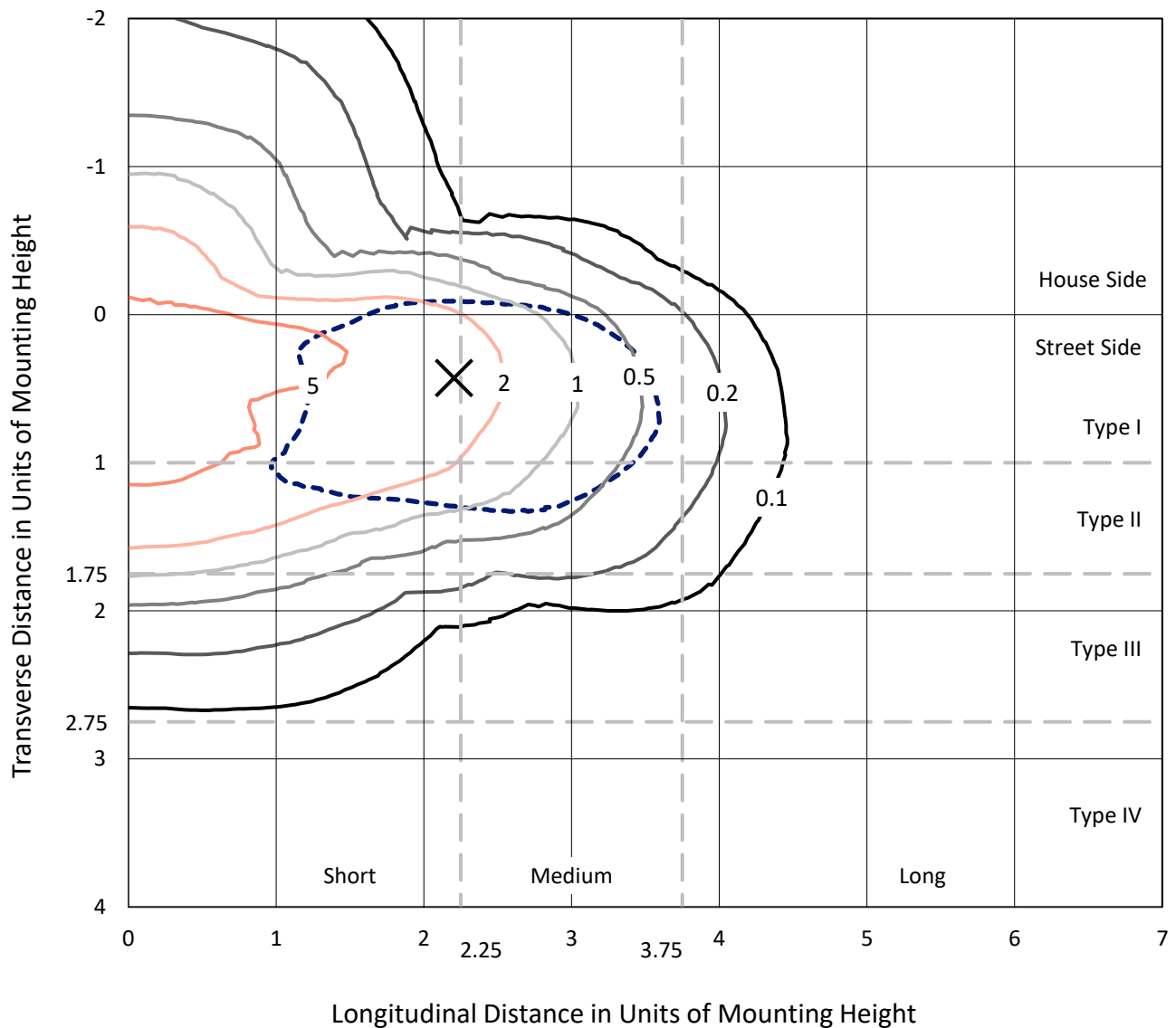
Lumens per Lamp: N/A  
Luminaire Lumens: 40930.7 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3  
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

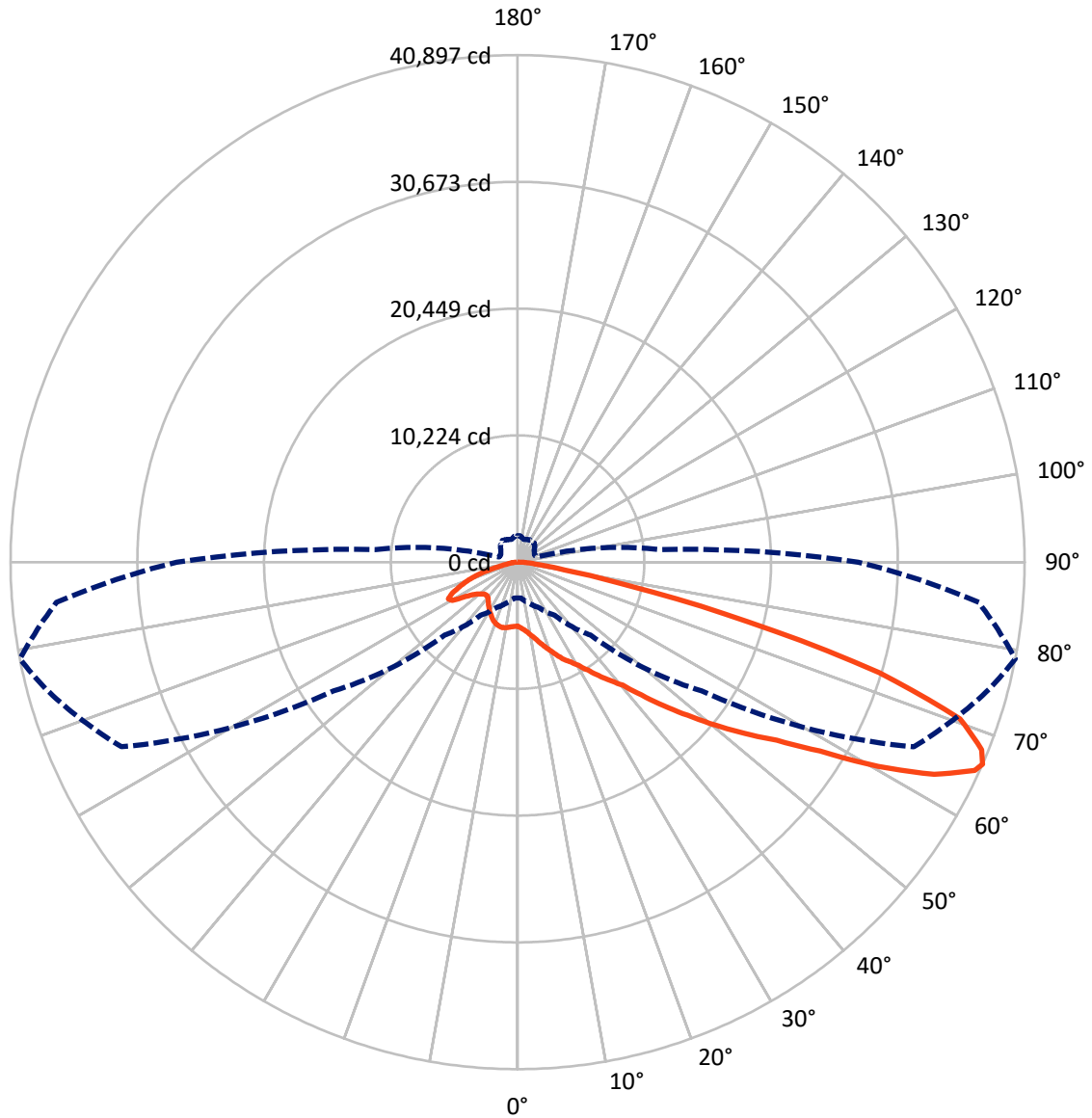
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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	8265.4	0.0	8265.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	32665.3	0.0	32665.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	40930.7	0.0	40930.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	508.2	1.2
10°-20°	1569.3	3.8
20°-30°	2693.8	6.6
30°-40°	4161.4	10.2
40°-50°	6665.5	16.3
50°-60°	9952.0	24.3
60°-70°	10225.7	25.0
70°-80°	4532.9	11.1
80°-90°	622.0	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°	40930.7	100.0
0°-180°	40930.7	100.0

**Coefficient of Utilization**



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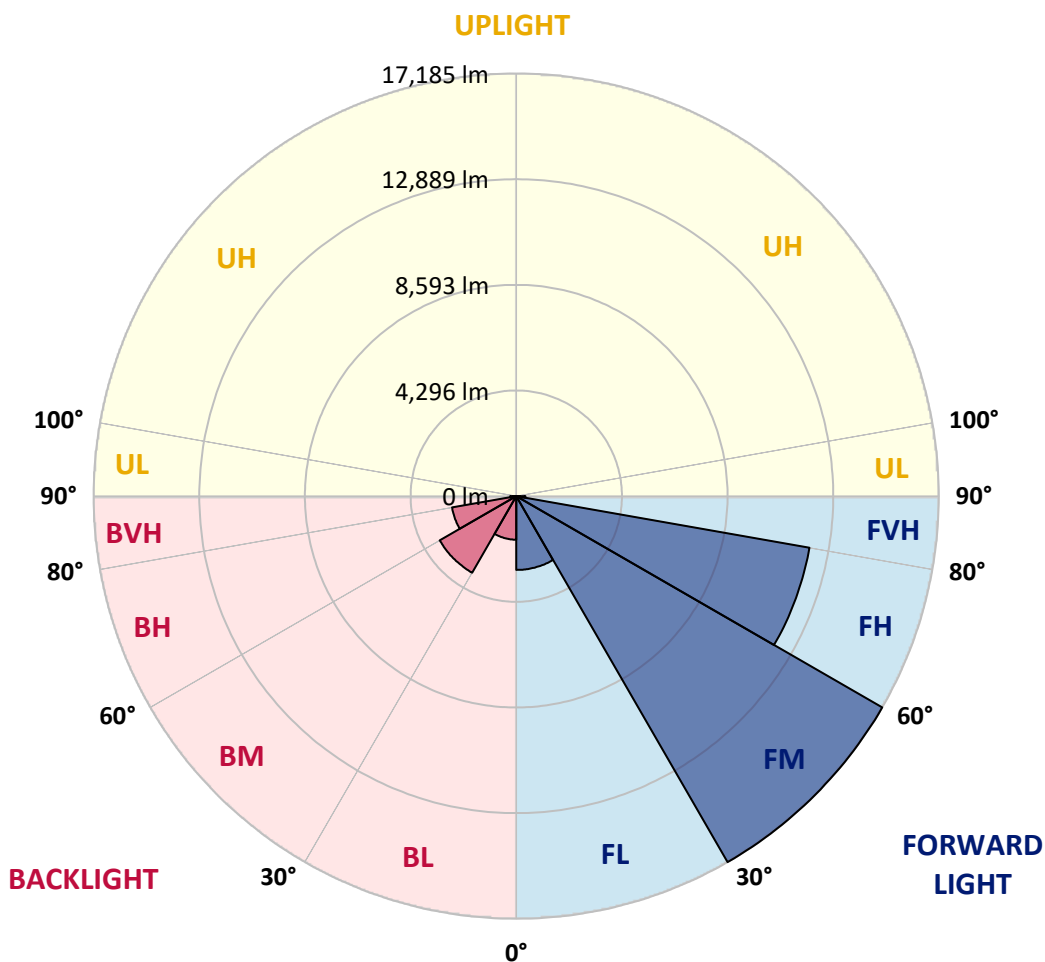
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3000.5	7.3			
FM (30°-60°)	17185.4	42.0			
FH (60°-80°)	12106.4	29.6			G5
FVH (80°-90°)	373.0	0.9			G3/500
BL (0°-30°)	1770.8	4.3	B3/2500		
BM (30°-60°)	3593.4	8.8	B3/5000		
BH (60°-80°)	2652.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	248.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4
2.5°	5497.1	5501.6	5501.6	5483.6	5488.1	5501.6	5452.0	5344.0	5344.0	5326.0	5294.5
5°	5834.7	5812.2	5780.7	5785.2	5767.2	5767.2	5713.2	5609.6	5519.6	5483.6	5389.0
7.5°	5879.7	5902.2	5897.7	5951.8	5978.8	5978.8	6005.8	5920.3	5785.2	5699.7	5605.1
10°	5969.8	5911.2	5906.7	6032.8	6073.3	6167.9	6275.9	6230.9	6118.3	5996.8	5870.7
12.5°	6023.8	6059.8	6059.8	6122.8	6217.4	6357.0	6546.0	6631.6	6456.0	6329.9	6136.4
15°	6104.8	6055.3	6199.4	6253.4	6433.5	6532.5	6802.7	7023.3	6906.2	6753.1	6447.0
17.5°	6140.9	6109.3	6190.4	6289.4	6595.6	6744.1	7072.8	7378.9	7279.9	7180.8	6865.7
20°	6325.4	6320.9	6357.0	6438.0	6658.6	6951.2	7360.9	7784.1	7820.1	7640.1	7212.4
22.5°	6775.7	6717.1	6717.1	6685.6	6780.2	7081.8	7635.6	8220.8	8382.9	8171.3	7604.0
25°	7189.8	7270.9	7221.4	7077.3	7041.3	7198.8	7833.6	8684.5	8900.6	8702.5	8135.3
27.5°	7721.1	7748.1	7833.6	7640.1	7392.4	7442.0	8049.7	8945.7	9391.4	9125.7	8436.9
30°	8486.4	8436.9	8418.9	8202.8	7878.7	7811.1	8297.4	9328.3	10035.2	9661.5	8792.6
32.5°	9004.2	9125.7	9121.2	8824.1	8432.4	8283.9	8603.5	9688.5	10724.0	10377.3	9449.9
35°	10030.7	10156.7	10057.7	9621.0	9161.8	8864.6	9044.7	10156.7	11511.9	11241.7	10008.2
37.5°	11340.8	11637.9	11426.3	10620.4	9972.1	9648.0	9657.0	10665.5	12317.7	12097.1	10606.9
40°	12245.7	12646.4	12353.7	11597.4	10908.6	10602.4	10480.9	11268.7	13281.2	13047.1	11543.4
42.5°	13366.7	13699.9	13546.8	12799.5	11993.6	11732.5	11489.3	12277.2	14753.4	14645.3	12745.4
45°	14591.3	14748.9	14699.3	14226.6	13330.7	13240.7	12704.9	13605.3	16486.7	16531.7	14249.1
47.5°	15730.3	15815.9	15910.4	15568.2	15010.0	15086.5	14105.1	15028.0	18170.5	18467.6	15923.9
50°	16023.0	16315.6	16536.2	16765.8	16887.4	17405.1	15649.3	16774.8	20106.4	20682.6	17787.8
52.5°	15725.8	15703.3	16374.1	17094.5	18310.0	19395.0	17751.8	18944.8	21817.1	22956.2	19494.1
55°	14375.2	14330.2	15410.7	16365.1	18737.7	20502.5	20754.7	21835.2	23883.6	25364.8	21803.6
57.5°	12011.6	11732.5	12912.0	14478.7	17810.3	20624.1	23771.1	26125.7	27062.1	28750.4	25328.8
60°	8072.3	7955.2	9085.2	10953.6	14460.7	18899.8	25576.4	31496.7	31541.7	33441.6	30798.8
62.5°	4970.3	4992.8	5717.7	7117.8	10125.2	14983.0	24797.5	35787.1	35796.2	37700.5	35300.9
65°	3250.5	3264.0	3849.3	4623.7	6325.4	10161.2	20507.0	36124.8	38754.0	40523.4	37362.9
66°	2894.8	2899.3	3403.6	4033.9	5240.4	8315.4	18111.9	35246.9	39420.3	40897.0	37335.9
67.5°	2440.1	2498.7	2903.9	3390.1	4087.9	5974.3	14370.7	32707.7	39078.2	40374.8	36489.5
70°	1908.9	1940.4	2260.1	2755.3	3065.9	3457.6	8540.5	26661.4	35769.1	37871.6	33410.0
72.5°	1530.7	1557.7	1800.8	2237.5	2489.7	2278.1	4650.7	19345.5	28255.1	30497.2	26278.7
75°	1292.1	1296.6	1413.7	1760.3	2048.5	1710.8	2476.2	12416.8	18129.9	19174.4	16099.5
77.5°	1044.5	1062.5	1143.5	1341.6	1647.8	1346.1	1476.7	6955.7	9103.2	9179.8	7442.0
80°	850.9	859.9	909.4	977.0	1256.1	995.0	999.5	3394.6	3903.3	3813.3	3025.4
82.5°	670.8	679.8	738.3	724.8	922.9	711.3	621.3	1634.3	1796.3	1760.3	1391.1
85°	378.2	378.2	580.8	580.8	585.3	450.2	378.2	769.9	949.9	886.9	652.8
87.5°	121.6	126.1	175.6	184.6	292.6	202.6	184.6	288.1	450.2	396.2	234.1
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°	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4	5168.4
2.5°	5276.5	5204.4	5172.9	5069.4	5042.3	4974.8	4943.3	4902.8	4889.3	4830.7	4884.8
5°	5317.0	5294.5	5168.4	5037.8	4938.8	4893.8	4826.2	4736.2	4727.2	4646.2	4637.2
7.5°	5488.1	5411.5	5190.9	5051.3	4853.3	4740.7	4592.1	4547.1	4488.6	4461.6	4520.1
10°	5753.7	5560.1	5231.4	4880.3	4637.2	4502.1	4394.0	4362.5	4367.0	4349.0	4322.0
12.5°	5942.8	5758.2	5163.9	4736.2	4421.1	4290.5	4281.5	4313.0	4362.5	4340.0	4371.5
15°	6212.9	5866.2	5114.4	4497.6	4245.5	4209.5	4205.0	4299.5	4295.0	4295.0	4290.5
17.5°	6465.0	5974.3	4934.3	4290.5	4060.9	4087.9	4119.4	4114.9	4159.9	4177.9	4209.5
20°	6784.7	6100.3	4682.2	4083.4	3921.3	3912.3	3907.8	3912.3	3957.3	3984.4	3961.8
22.5°	7063.8	6127.4	4470.6	3885.3	3754.7	3718.7	3660.2	3718.7	3696.2	3705.2	3732.2
25°	7306.9	6131.9	4168.9	3736.7	3588.2	3507.1	3462.1	3457.6	3417.1	3412.6	3412.6
27.5°	7509.5	5978.8	3903.3	3529.6	3390.1	3313.5	3309.0	3259.5	3156.0	3088.4	3097.4
30°	7667.1	5861.7	3718.7	3349.6	3214.5	3201.0	3160.5	3047.9	2912.9	2827.3	2827.3
32.5°	7946.2	5627.6	3466.6	3165.0	3097.4	3079.4	2984.9	2885.8	2759.8	2678.7	2665.2
35°	8153.3	5411.5	3300.0	3007.4	2975.9	2939.9	2858.8	2750.8	2714.8	2696.8	2710.3
37.5°	8387.4	5168.4	3097.4	2872.3	2903.9	2836.3	2741.8	2692.3	2818.3	2786.8	2800.3
40°	8761.1	4997.3	2899.3	2791.3	2822.8	2746.3	2624.7	2606.7	2764.3	2651.7	2624.7
42.5°	9445.4	4992.8	2777.8	2669.7	2692.3	2633.7	2525.7	2516.7	2579.7	2444.6	2404.1
45°	10296.3	5150.4	2687.8	2579.7	2561.7	2552.7	2516.7	2476.2	2422.1	2246.5	2201.5
47.5°	11313.8	5407.0	2669.7	2444.6	2467.1	2543.7	2498.7	2395.1	2255.5	2143.0	2120.5
50°	12547.3	5938.3	2624.7	2345.6	2386.1	2507.7	2471.6	2327.6	2201.5	2129.5	2116.0
52.5°	13911.5	6609.1	2566.2	2192.5	2282.6	2476.2	2494.2	2359.1	2174.5	2111.5	2102.5
55°	15518.7	7599.5	2498.7	2025.9	2161.0	2444.6	2494.2	2269.1	2138.5	2138.5	2129.5
57.5°	18692.7	9382.4	2359.1	1872.9	2053.0	2386.1	2422.1	2273.6	2143.0	2143.0	2125.0
60°	23347.9	12164.7	2093.5	1755.8	1949.4	2305.1	2368.1	2206.0	2093.5	2120.5	2116.0
62.5°	26990.1	13011.1	1868.4	1643.3	1845.9	2156.5	2296.1	2134.0	2034.9	2134.0	2143.0
65°	27768.9	12155.7	1638.8	1521.7	1701.8	2012.4	2192.5	2030.4	1949.4	2143.0	2152.0
66°	27489.8	11489.3	1557.7	1485.7	1638.8	1940.4	2129.5	1994.4	1904.4	2134.0	2138.5
67.5°	26247.2	10489.9	1467.7	1409.2	1553.2	1836.9	2057.5	1944.9	1832.4	2107.0	2066.5
70°	23546.0	8896.1	1314.6	1274.1	1431.7	1665.8	1890.9	1818.8	1719.8	1940.4	1868.4
72.5°	18134.4	7108.8	1152.5	1157.0	1292.1	1490.2	1724.3	1674.8	1589.2	1701.8	1656.8
75°	11043.6	4542.6	1004.0	1013.0	1125.5	1323.6	1566.7	1530.7	1427.2	1490.2	1467.7
77.5°	4893.8	2251.0	846.4	864.4	954.4	1166.0	1364.1	1305.6	1197.6	1211.1	1202.1
80°	1899.9	1067.0	688.8	711.3	769.9	931.9	1130.0	1076.0	981.5	963.4	954.4
82.5°	913.9	594.3	531.2	540.3	562.8	742.8	972.5	904.9	778.9	697.8	697.8
85°	459.2	369.2	373.7	342.2	373.7	504.2	657.3	549.3	454.7	405.2	414.2
87.5°	184.6	184.6	184.6	157.6	166.6	238.6	306.1	207.1	189.1	112.6	112.6
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)