

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: P478033

Luminaire Tested: **IFLD-L-SA8D-722-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478033  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-722-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

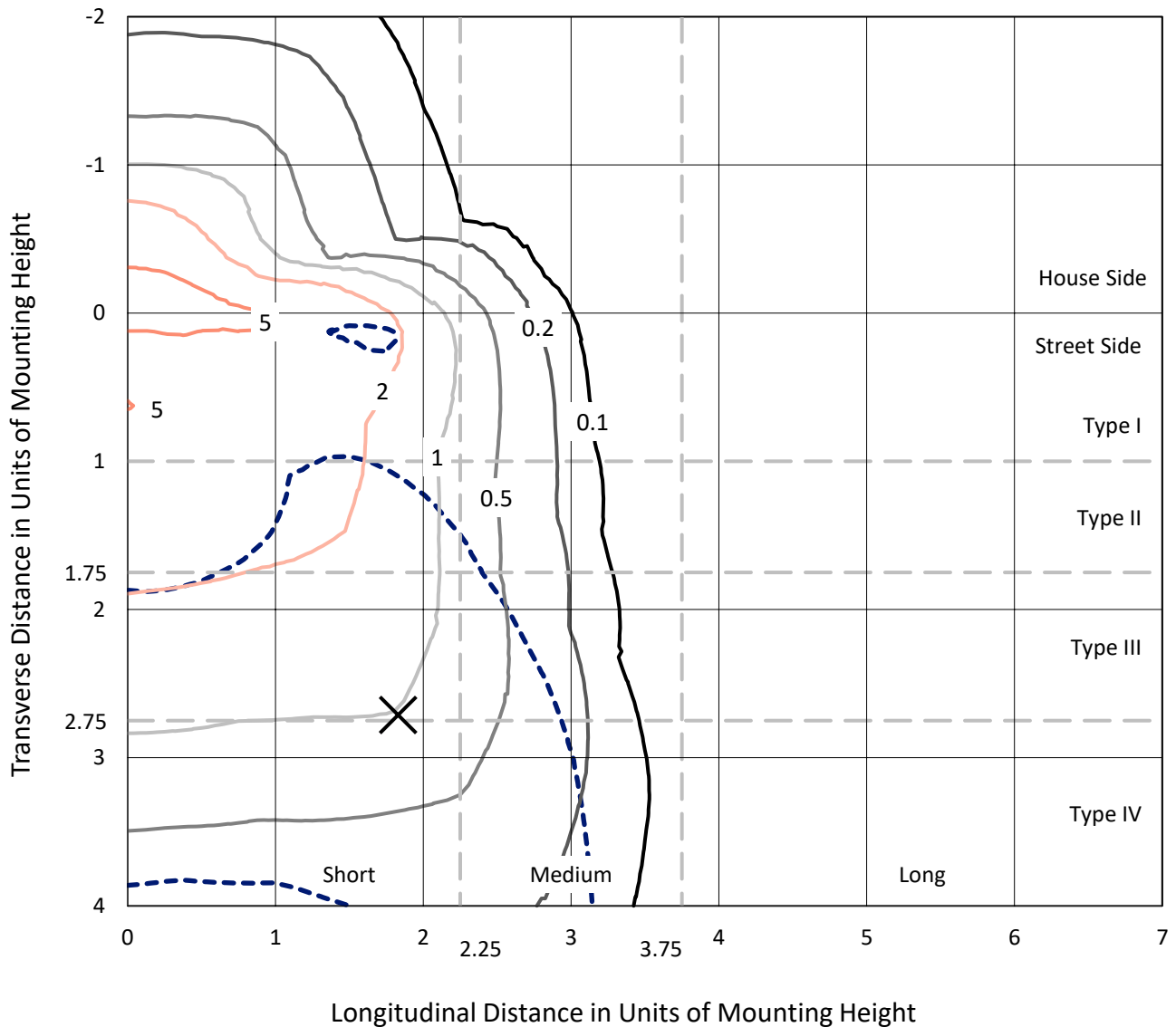
Lumens per Lamp: N/A  
Luminaire Lumens: 42069.4 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

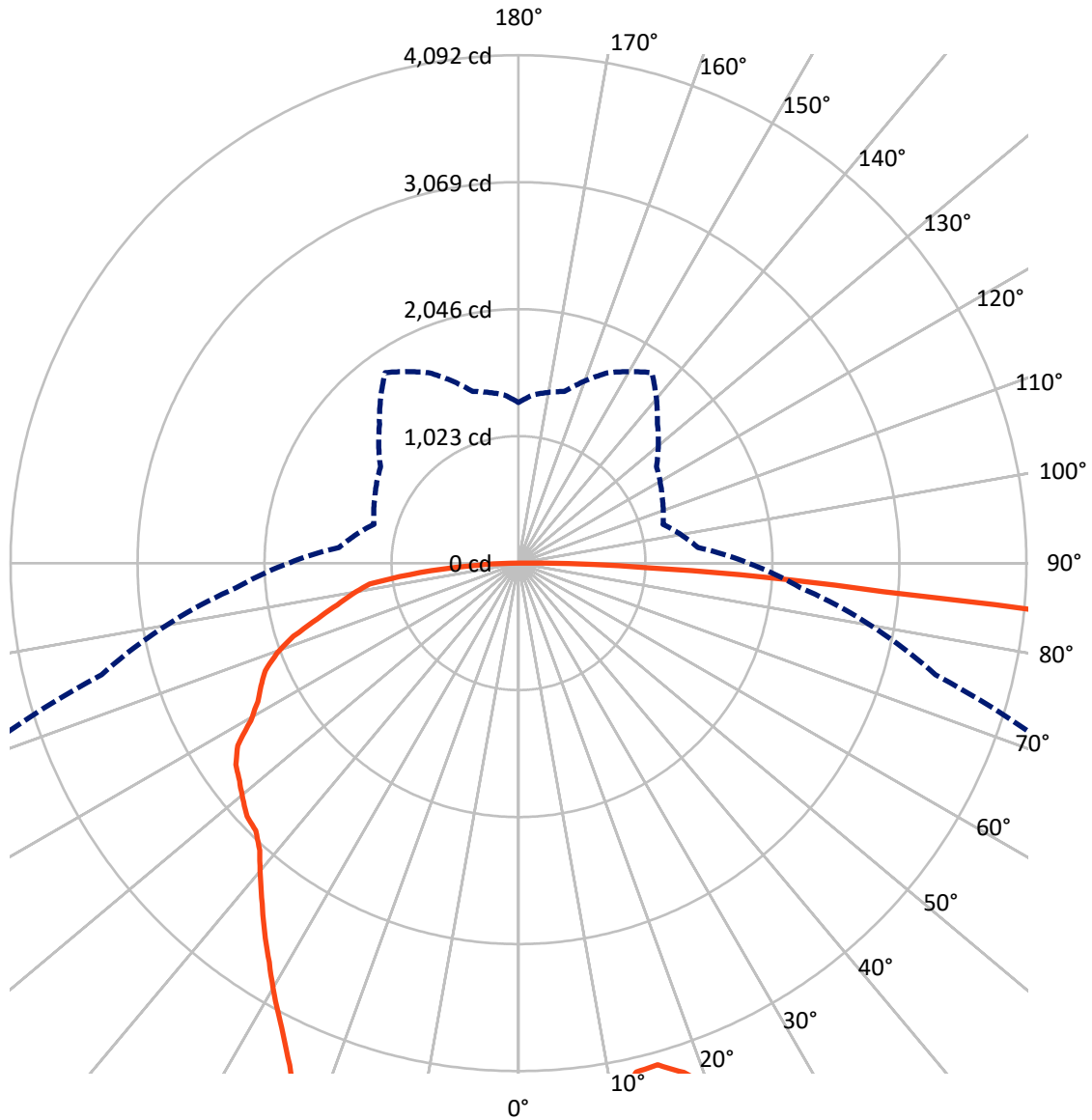
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9087.5	0.0	9087.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	32981.9	0.0	32981.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	42069.4	0.0	42069.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.7	1.3
10°-20°	1557.9	3.7
20°-30°	2564.0	6.1
30°-40°	3834.5	9.1
40°-50°	5684.4	13.5
50°-60°	8191.9	19.5
60°-70°	10453.9	24.8
70°-80°	8134.9	19.3
80°-90°	1091.3	2.6
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°	42069.4	100.0
0°-180°	42069.4	100.0

**Coefficient of Utilization**



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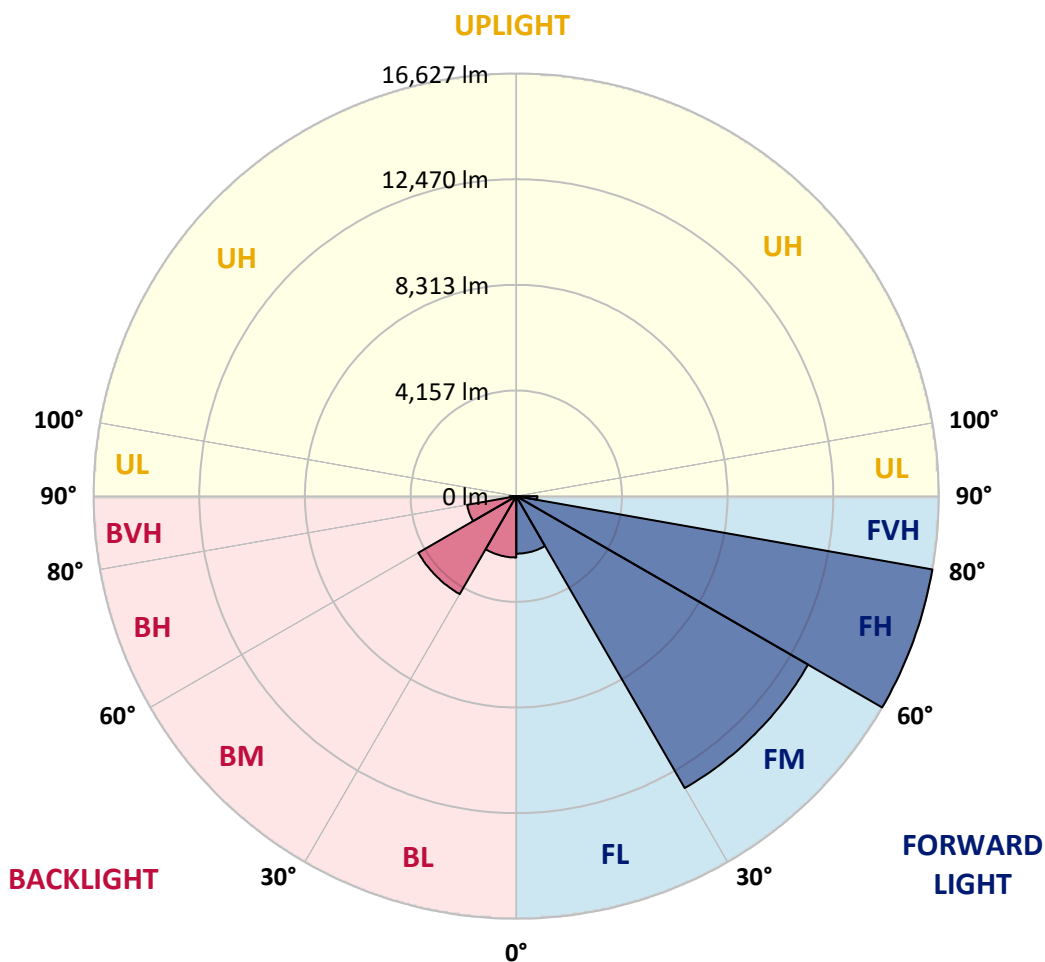
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.0	5.4			
FM (30°-60°)	13260.6	31.5			
FH (60°-80°)	16626.6	39.5			G5
FVH (80°-90°)	830.7	2.0			G5
BL (0°-30°)	2414.5	5.7	B3/2500		
BM (30°-60°)	4450.2	10.6	B3/5000		
BH (60°-80°)	1962.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	260.6	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3
2.5°	5404.2	5422.0	5479.8	5493.1	5555.4	5519.8	5595.4	5728.9	5804.5	5915.7	6049.1
5°	4977.2	4901.6	4937.1	5075.0	5146.2	5164.0	5244.0	5470.9	5613.2	5777.8	6026.9
7.5°	4474.6	4461.2	4532.4	4621.3	4763.7	4777.0	4954.9	5155.1	5448.6	5813.4	6106.9
10°	4132.1	4189.9	4229.9	4323.3	4421.2	4421.2	4648.0	4995.0	5328.5	5679.9	6124.7
12.5°	4114.3	4078.7	4087.6	4136.5	4207.7	4296.6	4510.1	4821.5	5244.0	5653.2	6200.3
15°	4172.1	4185.4	4105.4	4167.7	4194.3	4225.5	4461.2	4812.6	5190.7	5746.6	6329.3
17.5°	4479.0	4403.4	4278.9	4221.0	4314.4	4314.4	4474.6	4750.3	5199.6	5795.6	6516.1
20°	4719.2	4719.2	4514.6	4452.3	4519.0	4505.7	4616.9	4821.5	5244.0	5893.4	6725.2
22.5°	5123.9	5181.8	4843.7	4714.7	4710.3	4745.9	4843.7	5017.2	5368.6	6031.3	6925.3
25°	5706.6	5720.0	5328.5	5195.1	5052.8	5110.6	5128.4	5301.9	5479.8	6191.4	7152.2
27.5°	6356.0	6347.1	5986.8	5653.2	5559.8	5573.2	5475.3	5591.0	5644.3	6240.4	7476.9
30°	7076.6	6996.5	6725.2	6253.7	6178.1	6093.6	5880.1	5875.6	5986.8	6516.1	7926.1
32.5°	7548.0	7445.7	7258.9	6920.9	6711.8	6720.7	6382.7	6378.2	6280.4	6818.6	8317.5
35°	8010.6	7854.9	7806.0	7459.1	7250.0	7272.3	7000.9	6965.4	6787.5	7276.7	8962.5
37.5°	8566.6	8428.7	8504.3	8241.9	7983.9	7877.2	7752.6	7708.2	7476.9	7921.7	9843.1
40°	9180.4	9135.9	9087.0	8958.0	8802.3	8811.2	8677.8	8633.3	8290.8	8700.0	10688.2
42.5°	10007.7	9838.7	9585.2	9669.7	9749.7	9834.2	9789.8	9674.1	9318.3	9491.8	11631.2
45°	10777.2	10554.8	10087.8	10114.5	10443.6	10510.3	11048.5	11035.2	10319.1	10497.0	12703.1
47.5°	11297.6	11195.3	10915.1	10883.9	11355.4	11351.0	12320.6	12320.6	11373.2	11497.7	13855.1
50°	12071.5	11804.6	11684.6	11840.2	12080.4	12245.0	13619.4	13703.9	12409.6	12543.0	15362.9
52.5°	12978.9	12645.3	12342.8	12743.2	13170.1	13276.9	14904.8	14869.2	13205.7	13757.3	17128.8
55°	13730.6	13561.6	13352.5	13583.8	14282.1	14415.5	16194.7	15865.6	14001.9	14762.5	17978.3
57.5°	14606.8	14709.1	14753.6	14695.8	15527.5	15736.6	17666.9	16724.0	14686.9	15438.6	18476.5
60°	15927.8	15990.1	16047.9	16185.8	17066.5	17360.0	18832.3	17800.4	15118.3	15830.0	18516.5
62.5°	17938.3	17698.1	17827.1	18303.0	19010.2	19343.8	20549.2	18556.5	15447.5	16065.7	17208.8
65°	20237.8	19913.1	19779.7	20393.5	22226.0	21959.1	22693.0	19121.4	14971.5	15185.0	14593.5
67.5°	22568.5	22604.1	22261.6	23493.7	25739.8	25739.8	24685.7	19392.7	13681.7	12307.3	10234.6
70°	24418.8	24530.0	24716.8	27105.3	30663.6	31201.8	27154.3	18280.7	11053.0	8193.0	5595.4
72.5°	24392.1	24058.5	25014.8	29413.8	35138.2	34688.9	27670.2	14455.6	6898.6	4012.0	2566.4
73°	23845.0	23564.8	24610.1	29391.5	35320.5	34898.0	27292.1	13325.8	6084.7	3478.2	2281.8
75°	19472.8	18965.7	20744.9	26620.5	32678.5	33003.2	23186.8	8691.1	3335.9	2143.9	1605.7
77.5°	8878.0	9100.3	11417.7	17858.2	25183.8	25566.4	15242.9	3758.5	1828.1	1503.4	1183.1
80°	2851.1	2993.4	4443.4	8878.0	15785.5	16474.9	7045.4	1708.0	1303.2	1152.0	885.1
82.5°	1089.7	1085.3	1863.7	3691.7	7481.3	7921.7	2575.3	1040.8	969.6	849.5	627.1
85°	382.5	400.3	702.8	1458.9	2944.5	3082.4	894.0	578.2	671.6	569.3	360.3
87.5°	133.4	137.9	249.1	529.3	1014.1	1071.9	249.1	231.3	333.6	329.1	182.4
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°	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3	6031.3
2.5°	6093.6	6133.6	6147.0	6307.1	6307.1	6307.1	6369.4	6369.4	6351.6	6307.1	6413.8
5°	6120.3	6191.4	6329.3	6467.2	6502.8	6533.9	6618.4	6547.3	6574.0	6529.5	6569.5
7.5°	6195.9	6293.7	6551.7	6636.2	6578.4	6645.1	6556.2	6507.2	6458.3	6476.1	6413.8
10°	6324.9	6449.4	6569.5	6725.2	6614.0	6547.3	6364.9	6320.4	6164.7	6111.4	6160.3
12.5°	6485.0	6636.2	6840.8	6783.0	6569.5	6378.2	6182.5	5995.7	5902.3	5768.9	5804.5
15°	6645.1	6818.6	6849.7	6751.9	6485.0	6244.8	5889.0	5626.6	5533.2	5413.1	5475.3
17.5°	6818.6	6983.2	6929.8	6676.3	6316.0	5951.3	5546.5	5288.5	5092.8	5017.2	5017.2
20°	7076.6	7156.6	7072.1	6551.7	6111.4	5631.0	5239.6	4946.0	4750.3	4719.2	4670.3
22.5°	7276.7	7405.7	7027.6	6369.4	5813.4	5212.9	4763.7	4652.5	4594.7	4545.7	4483.5
25°	7534.7	7530.2	6947.6	6200.3	5301.9	4714.7	4443.4	4434.5	4407.8	4390.0	4474.6
27.5°	7779.3	7677.0	6854.2	5782.2	4772.6	4336.7	4189.9	4287.7	4327.8	4301.1	4336.7
30°	8166.3	7997.3	6720.7	5337.4	4305.5	3954.2	3980.8	4114.3	4181.0	4221.0	4167.7
32.5°	8575.5	8317.5	6445.0	4874.9	3891.9	3714.0	3776.2	3914.1	3994.2	4038.7	4087.6
35°	9167.1	8566.6	6164.7	4270.0	3593.9	3567.2	3602.8	3678.4	3794.0	3825.2	3838.5
37.5°	9896.5	8944.7	5786.7	3785.1	3362.6	3393.7	3429.3	3456.0	3460.4	3518.3	3496.0
40°	10626.0	9264.9	5235.1	3322.6	3122.4	3291.4	3273.6	3224.7	3184.7	3131.3	3118.0
42.5°	11266.5	9545.1	4621.3	2931.1	2908.9	3184.7	3126.9	3002.3	2908.9	2868.9	2802.2
45°	11987.0	9941.0	4003.1	2686.5	2744.3	3055.7	3037.9	2846.6	2726.5	2584.2	2566.4
47.5°	12921.1	10354.6	3411.5	2433.0	2588.7	3006.8	3015.7	2771.0	2597.6	2406.3	2379.6
50°	14117.5	10950.7	2962.3	2326.2	2495.3	2935.6	2948.9	2668.7	2441.9	2246.2	2228.4
52.5°	15265.1	11560.0	2588.7	2161.7	2433.0	2851.1	2882.2	2575.3	2312.9	2068.3	2081.6
55°	15843.3	11337.6	2268.4	2041.6	2290.7	2713.2	2828.8	2508.6	2117.2	1948.2	1943.7
57.5°	15972.3	10790.5	2014.9	1917.0	2170.6	2566.4	2739.9	2308.4	2028.2	1885.9	1868.1
60°	15549.8	9834.2	1814.7	1783.6	2019.3	2415.2	2535.3	2201.7	1939.3	1823.6	1796.9
62.5°	14509.0	8842.4	1676.8	1721.3	1890.3	2250.6	2406.3	2126.1	1854.8	1774.7	1716.9
65°	11898.1	7272.3	1565.7	1601.2	1756.9	2090.5	2326.2	2041.6	1779.1	1703.5	1699.1
67.5°	8241.9	5012.8	1476.7	1543.4	1650.2	1974.9	2246.2	1948.2	1681.3	1654.6	1619.0
70°	4221.0	2673.2	1361.0	1414.4	1534.5	1828.1	2103.8	1850.3	1579.0	1574.5	1530.1
72.5°	2139.4	1565.7	1227.6	1307.7	1392.2	1636.8	1925.9	1721.3	1450.0	1401.1	1329.9
73°	1850.3	1450.0	1205.4	1276.5	1356.6	1583.4	1872.6	1690.2	1432.2	1361.0	1294.3
75°	1347.7	1143.1	1080.8	1152.0	1214.3	1427.8	1694.6	1547.9	1316.6	1241.0	1178.7
77.5°	1009.7	880.7	898.5	978.5	1031.9	1232.1	1507.8	1401.1	1192.0	1089.7	1063.0
80°	742.8	671.6	742.8	818.4	858.4	1085.3	1374.4	1214.3	1005.2	889.6	867.3
82.5°	529.3	489.3	573.8	622.7	640.5	898.5	1236.5	969.6	760.6	609.4	560.4
85°	302.5	298.0	387.0	382.5	395.9	524.8	814.0	644.9	489.3	373.6	364.7
87.5°	133.4	146.8	195.7	155.7	164.6	249.1	346.9	240.2	200.2	111.2	84.5
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)