

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: P478019

Luminaire Tested: **IFLD-S-SA6E-722-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478019  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-722-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

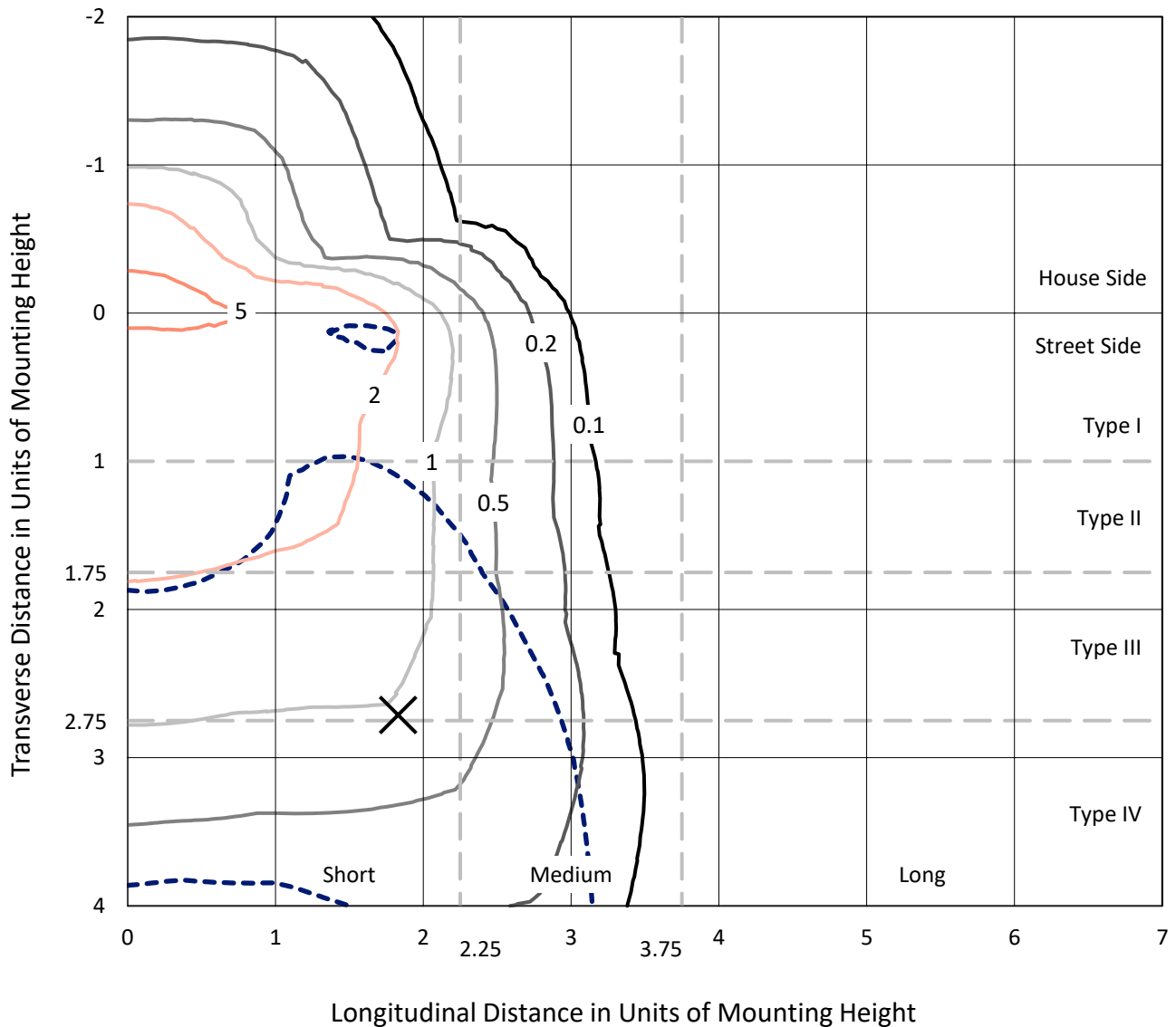
Lumens per Lamp: N/A  
Luminaire Lumens: 39930.3 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2  
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

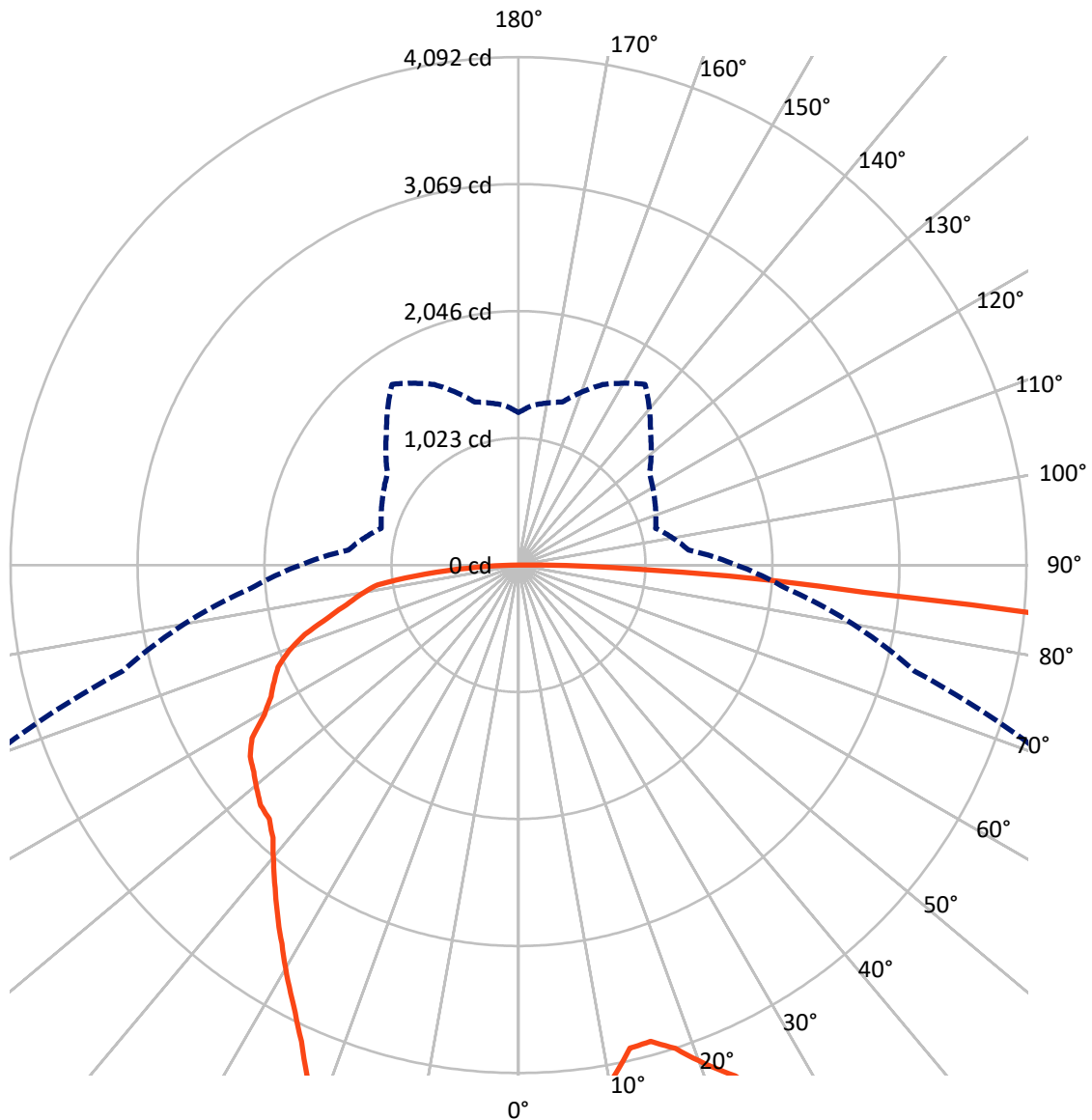
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	8625.4	0.0	8625.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	31304.8	0.0	31304.8
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	39930.3	0.0	39930.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.4	1.3
10°-20°	1478.6	3.7
20°-30°	2433.6	6.1
30°-40°	3639.5	9.1
40°-50°	5395.4	13.5
50°-60°	7775.3	19.5
60°-70°	9922.4	24.8
70°-80°	7721.2	19.3
80°-90°	1035.9	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°	39930.3	100.0
0°-180°	39930.3	100.0

**Coefficient of Utilization**



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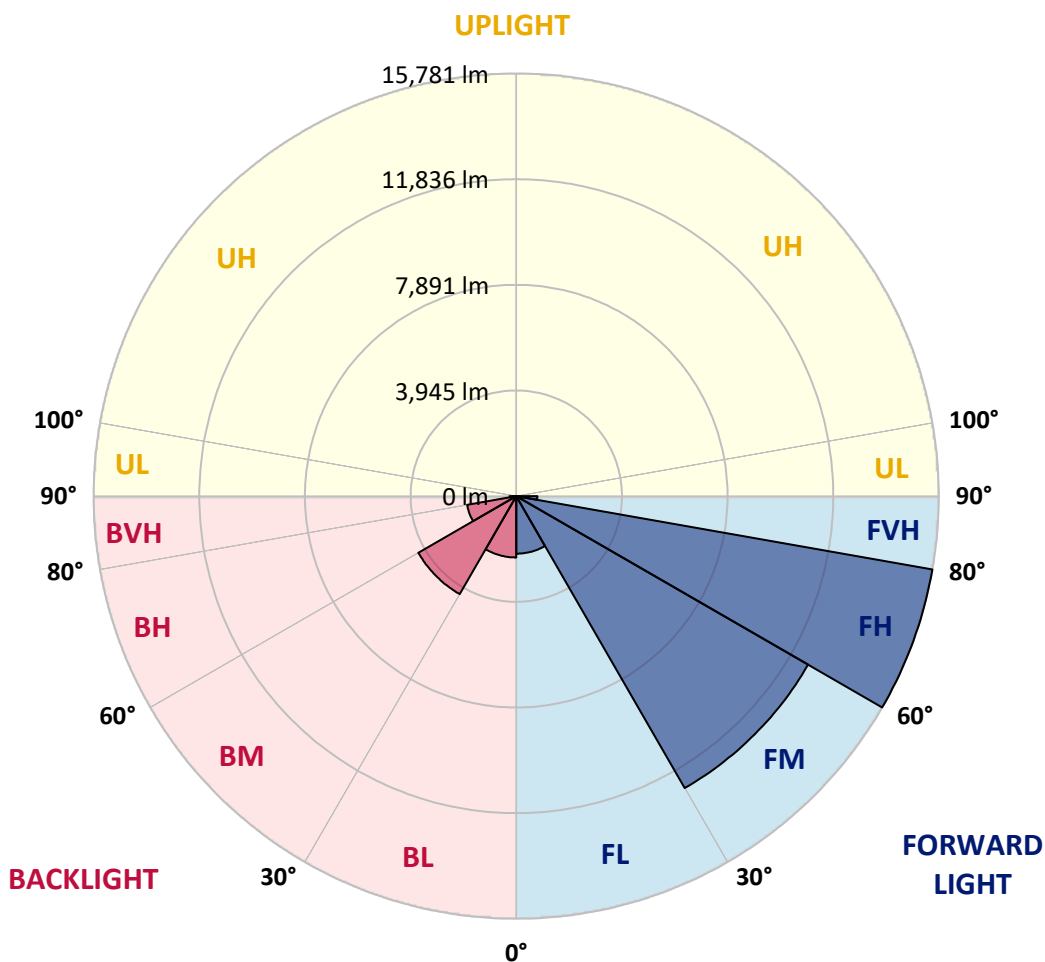
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.9	5.4			
FM (30°-60°)	12586.3	31.5			
FH (60°-80°)	15781.2	39.5			G5
FVH (80°-90°)	788.5	2.0			G5
BL (0°-30°)	2291.7	5.7	B3/2500		
BM (30°-60°)	4223.9	10.6	B3/5000		
BH (60°-80°)	1862.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	247.4	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°	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6
2.5°	5129.4	5146.3	5201.1	5213.8	5272.9	5239.1	5310.9	5437.6	5509.3	5614.9	5741.5
5°	4724.1	4652.3	4686.1	4817.0	4884.5	4901.4	4977.4	5192.7	5327.8	5484.0	5720.4
7.5°	4247.0	4234.4	4301.9	4386.4	4521.4	4534.1	4703.0	4893.0	5171.6	5517.8	5796.4
10°	3922.0	3976.8	4014.8	4103.5	4196.4	4196.4	4411.7	4741.0	5057.6	5391.1	5813.3
12.5°	3905.1	3871.3	3879.7	3926.2	3993.7	4078.2	4280.8	4576.3	4977.4	5365.8	5885.1
15°	3960.0	3972.6	3896.6	3955.7	3981.1	4010.6	4234.4	4567.9	4926.7	5454.4	6007.5
17.5°	4251.3	4179.5	4061.3	4006.4	4095.1	4095.1	4247.0	4508.8	4935.2	5500.9	6184.8
20°	4479.2	4479.2	4285.0	4225.9	4289.3	4276.6	4382.1	4576.3	4977.4	5593.8	6383.2
22.5°	4863.4	4918.3	4597.4	4475.0	4470.8	4504.6	4597.4	4762.1	5095.6	5724.6	6573.2
25°	5416.4	5429.1	5057.6	4931.0	4795.9	4850.7	4867.6	5032.3	5201.1	5876.6	6788.5
27.5°	6032.8	6024.4	5682.4	5365.8	5277.1	5289.8	5196.9	5306.7	5357.3	5923.1	7096.7
30°	6716.7	6640.7	6383.2	5935.7	5863.9	5783.7	5581.1	5576.9	5682.4	6184.8	7523.1
32.5°	7164.2	7067.1	6889.8	6569.0	6370.6	6379.0	6058.1	6053.9	5961.0	6471.9	7894.6
35°	7603.3	7455.5	7409.1	7079.8	6881.4	6902.5	6645.0	6611.2	6442.3	6906.7	8506.7
37.5°	8131.0	8000.1	8071.9	7822.8	7578.0	7476.6	7358.4	7316.2	7096.7	7518.9	9342.6
40°	8713.6	8671.4	8624.9	8502.5	8354.8	8363.2	8236.5	8194.3	7869.3	8257.7	10144.8
42.5°	9498.8	9338.4	9097.8	9178.0	9254.0	9334.2	9292.0	9182.2	8844.5	9009.1	11039.8
45°	10229.2	10018.1	9574.8	9600.2	9912.6	9975.9	10486.7	10474.0	9794.4	9963.2	12057.2
47.5°	10723.1	10626.0	10360.1	10330.5	10778.0	10773.8	11694.1	11694.1	10794.9	10913.1	13150.6
50°	11457.7	11204.4	11090.4	11238.2	11466.1	11622.4	12926.9	13007.1	11778.6	11905.2	14581.8
52.5°	12318.9	12002.3	11715.2	12095.2	12500.5	12601.8	14146.9	14113.2	12534.2	13057.7	16257.8
55°	13032.4	12872.0	12673.6	12893.1	13555.9	13682.5	15371.2	15058.8	13289.9	14011.8	17064.1
57.5°	13864.1	13961.2	14003.4	13948.5	14738.0	14936.4	16768.6	15873.6	13940.1	14653.5	17537.0
60°	15117.9	15177.0	15231.9	15362.8	16198.7	16477.3	17874.7	16895.3	14349.6	15025.0	17575.0
62.5°	17026.1	16798.2	16920.6	17372.3	18043.6	18360.2	19504.3	17612.9	14662.0	15248.8	16333.8
65°	19208.8	18900.6	18773.9	19356.5	21095.9	20842.6	21539.1	18149.1	14210.3	14412.9	13851.4
67.5°	21420.9	21454.7	21129.6	22299.0	24431.0	24431.0	23430.5	18406.6	12986.0	11681.5	9714.1
70°	23177.2	23282.7	23460.0	25727.1	29104.4	29615.3	25773.5	17351.2	10490.9	7776.4	5310.9
72.5°	23151.8	22835.2	23742.9	27918.1	33351.5	32925.1	26263.2	13720.5	6547.9	3808.0	2435.9
73°	22632.6	22366.6	23358.7	27897.0	33524.6	33123.5	25904.4	12648.2	5775.3	3301.4	2165.7
75°	18482.6	18001.3	19690.0	25266.9	31016.9	31325.0	22007.7	8249.2	3166.3	2034.9	1524.0
77.5°	8426.5	8637.6	10837.1	16950.1	23903.3	24266.4	14467.8	3567.3	1735.1	1426.9	1123.0
80°	2706.1	2841.2	4217.5	8426.5	14982.8	15637.2	6687.2	1621.1	1237.0	1093.4	840.1
82.5°	1034.3	1030.1	1768.9	3504.0	7100.9	7518.9	2444.4	987.9	920.3	806.3	595.3
85°	363.1	380.0	667.0	1384.7	2794.8	2925.6	848.6	548.8	637.5	540.4	342.0
87.5°	126.7	130.9	236.4	502.4	962.5	1017.4	236.4	219.5	316.6	312.4	173.1
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°	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6	5724.6
2.5°	5783.7	5821.7	5834.4	5986.4	5986.4	5986.4	6045.5	6045.5	6028.6	5986.4	6087.7
5°	5809.1	5876.6	6007.5	6138.4	6172.1	6201.7	6281.9	6214.3	6239.7	6197.5	6235.5
7.5°	5880.8	5973.7	6218.6	6298.8	6243.9	6307.2	6222.8	6176.4	6129.9	6146.8	6087.7
10°	6003.3	6121.5	6235.5	6383.2	6277.7	6214.3	6041.3	5999.0	5851.3	5800.6	5847.1
12.5°	6155.2	6298.8	6493.0	6438.1	6235.5	6053.9	5868.2	5690.9	5602.2	5475.6	5509.3
15°	6307.2	6471.9	6501.4	6408.5	6155.2	5927.3	5589.5	5340.5	5251.8	5137.8	5196.9
17.5°	6471.9	6628.1	6577.4	6336.8	5994.8	5648.6	5264.5	5019.6	4833.9	4762.1	4762.1
20°	6716.7	6792.7	6712.5	6218.6	5800.6	5344.7	4973.2	4694.5	4508.8	4479.2	4432.8
22.5°	6906.7	7029.1	6670.3	6045.5	5517.8	4947.8	4521.4	4415.9	4361.0	4314.6	4255.5
25°	7151.6	7147.3	6594.3	5885.1	5032.3	4475.0	4217.5	4209.0	4183.7	4166.8	4247.0
27.5°	7383.8	7286.7	6505.6	5488.2	4529.9	4116.2	3976.8	4069.7	4107.7	4082.4	4116.2
30°	7751.0	7590.6	6379.0	5066.0	4086.6	3753.1	3778.4	3905.1	3968.4	4006.4	3955.7
32.5°	8139.4	7894.6	6117.2	4627.0	3694.0	3525.1	3584.2	3715.1	3791.1	3833.3	3879.7
35°	8700.9	8131.0	5851.3	4052.8	3411.1	3385.8	3419.6	3491.3	3601.1	3630.7	3643.3
37.5°	9393.3	8489.8	5492.4	3592.7	3191.6	3221.2	3254.9	3280.3	3284.5	3339.4	3318.3
40°	10085.7	8793.8	4968.9	3153.6	2963.6	3124.1	3107.2	3060.7	3022.7	2972.1	2959.4
42.5°	10693.6	9059.8	4386.4	2782.1	2761.0	3022.7	2967.9	2849.7	2761.0	2723.0	2659.7
45°	11377.5	9435.5	3799.5	2549.9	2604.8	2900.3	2883.4	2701.9	2587.9	2452.8	2435.9
47.5°	12264.1	9828.1	3238.0	2309.3	2457.0	2853.9	2862.3	2630.1	2465.5	2283.9	2258.6
50°	13399.7	10393.8	2811.7	2208.0	2368.4	2786.3	2799.0	2533.0	2317.7	2132.0	2115.1
52.5°	14488.9	10972.2	2457.0	2051.7	2309.3	2706.1	2735.7	2444.4	2195.3	1963.1	1975.8
55°	15037.7	10761.1	2153.1	1937.8	2174.2	2575.2	2685.0	2381.0	2009.5	1849.1	1844.9
57.5°	15160.1	10241.9	1912.4	1819.6	2060.2	2435.9	2600.6	2191.1	1925.1	1790.0	1773.1
60°	14759.1	9334.2	1722.5	1692.9	1916.7	2292.4	2406.4	2089.7	1840.7	1730.9	1705.6
62.5°	13771.2	8392.7	1591.6	1633.8	1794.2	2136.2	2283.9	2018.0	1760.5	1684.5	1629.6
65°	11293.1	6902.5	1486.0	1519.8	1667.6	1984.2	2208.0	1937.8	1688.7	1616.9	1612.7
67.5°	7822.8	4757.9	1401.6	1464.9	1566.3	1874.4	2132.0	1849.1	1595.8	1570.5	1536.7
70°	4006.4	2537.2	1291.8	1342.5	1456.5	1735.1	1996.9	1756.2	1498.7	1494.5	1452.3
72.5°	2030.6	1486.0	1165.2	1241.2	1321.4	1553.6	1828.0	1633.8	1376.3	1329.8	1262.3
73°	1756.2	1376.3	1144.1	1211.6	1287.6	1502.9	1777.3	1604.2	1359.4	1291.8	1228.5
75°	1279.2	1085.0	1025.9	1093.4	1152.5	1355.2	1608.5	1469.2	1249.6	1177.9	1118.8
77.5°	958.3	835.9	852.8	928.8	979.4	1169.4	1431.2	1329.8	1131.4	1034.3	1009.0
80°	705.0	637.5	705.0	776.8	814.8	1030.1	1304.5	1152.5	954.1	844.3	823.2
82.5°	502.4	464.4	544.6	591.0	607.9	852.8	1173.6	920.3	721.9	578.4	531.9
85°	287.1	282.9	367.3	363.1	375.7	498.2	772.6	612.1	464.4	354.6	346.2
87.5°	126.7	139.3	185.8	147.8	156.2	236.4	329.3	228.0	190.0	105.5	80.2
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)