

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: P639045

Luminaire Tested: **USSL-M-C097-D-U-T4-BZ-7050**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-M-C097-D-U-T4-BZ-7050  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51502 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

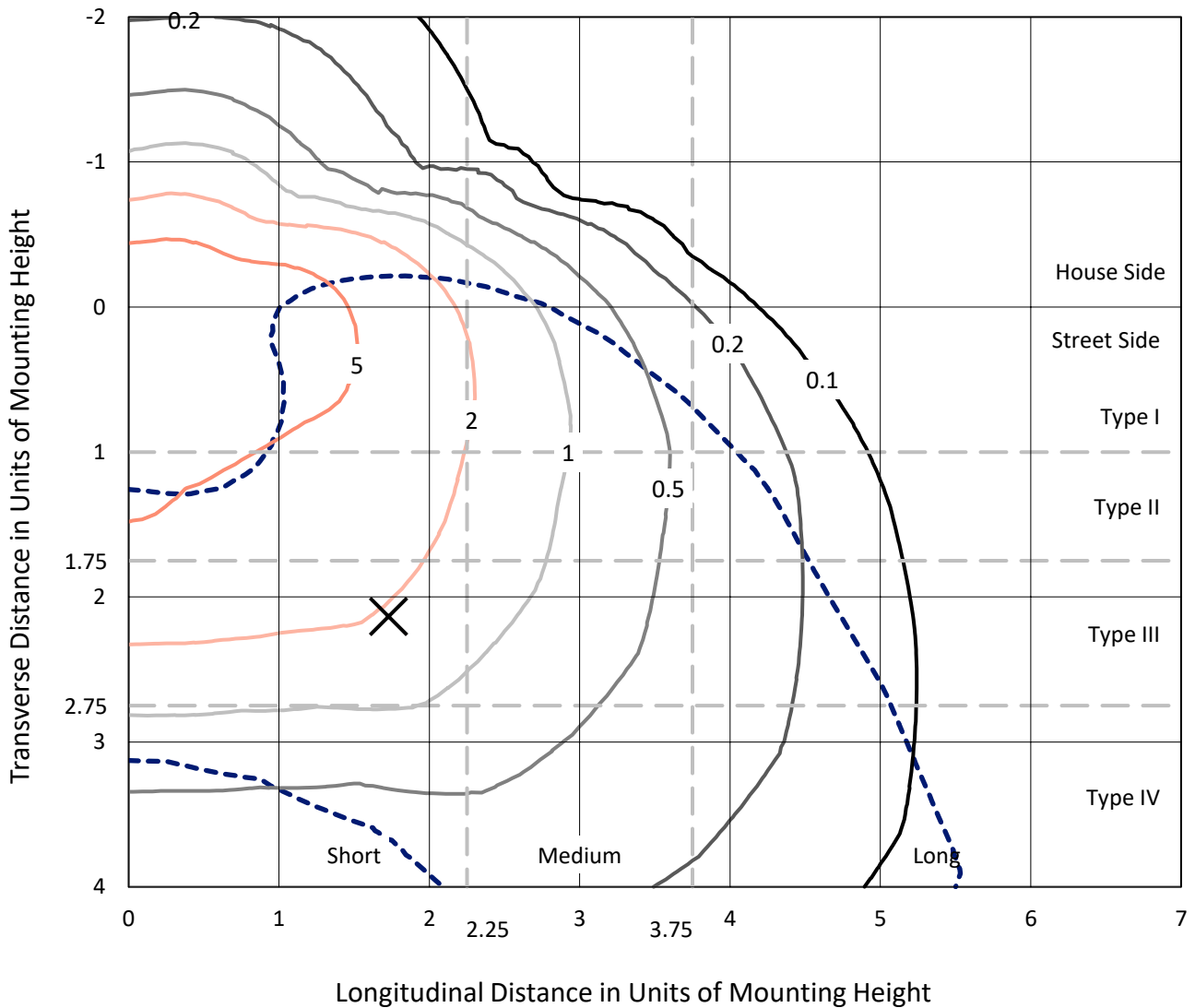
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P639045  
 CATALOG NUMBER: USSL-M-C097-D-U-T4-BZ-7050

### Iso-Footcandle Lines of Horizontal Illumination

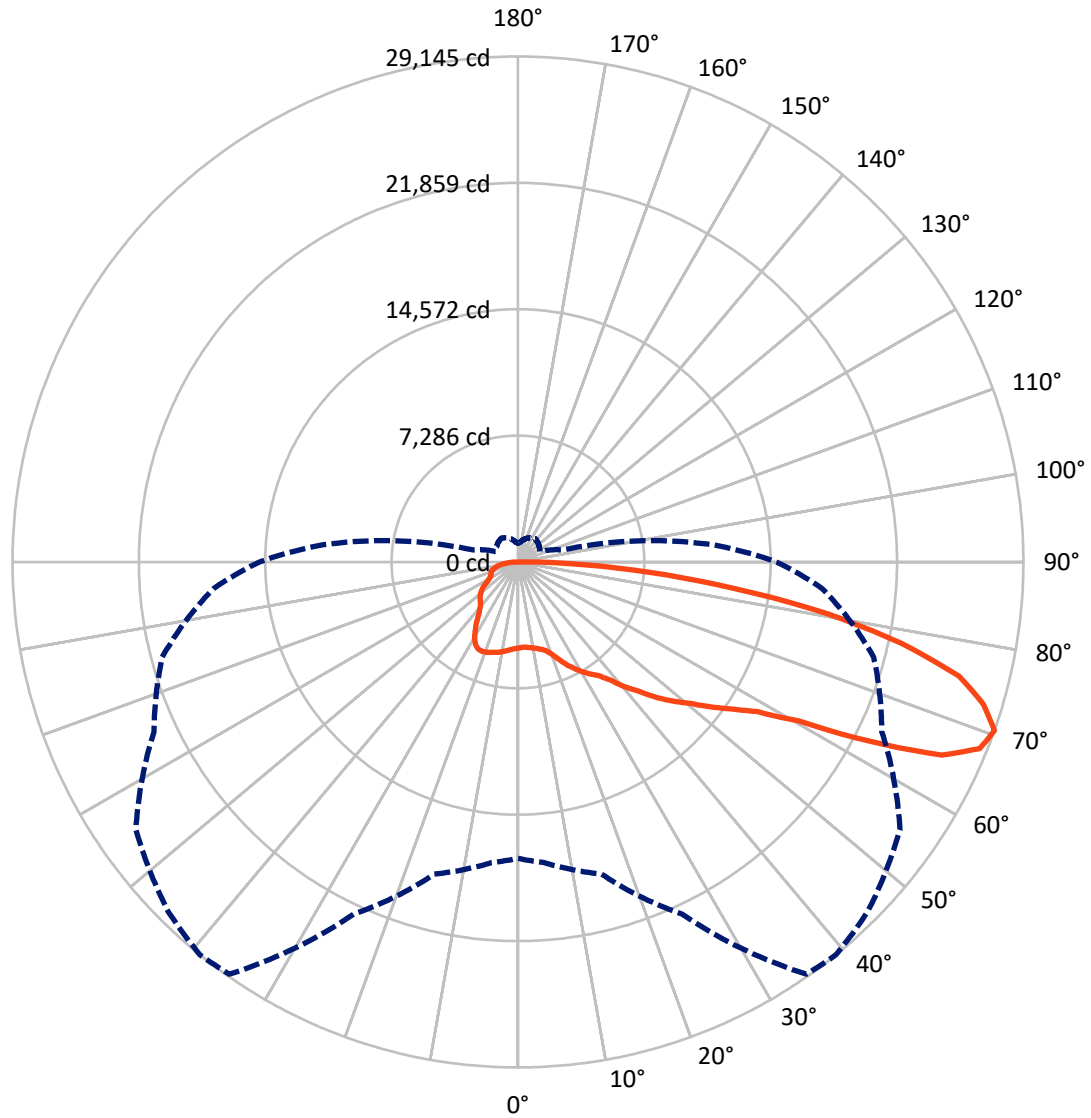
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P639045  
CATALOG NUMBER: USSL-M-C097-D-U-T4-BZ-7050

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P639045

CATALOG NUMBER: USSL-M-C097-D-U-T4-BZ-7050

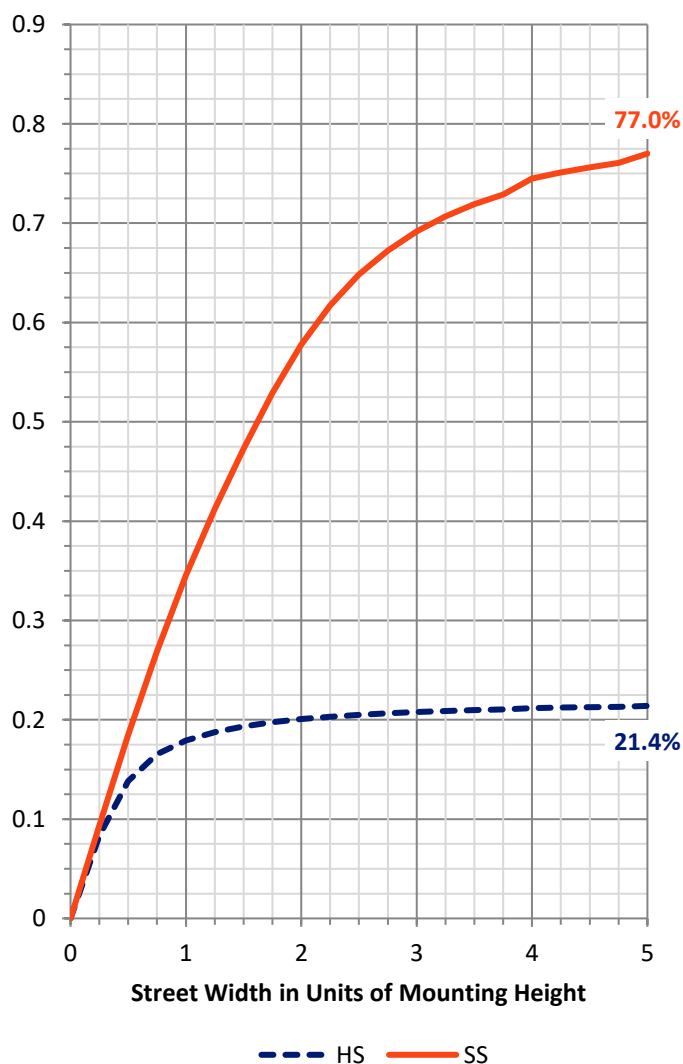
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11184.5	0.0	11184.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	40317.6	0.0	40317.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	51502.0	0.0	51502.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.3	0.9
10°-20°	1525.3	3.0
20°-30°	2848.4	5.5
30°-40°	4452.1	8.6
40°-50°	6819.4	13.2
50°-60°	9791.2	19.0
60°-70°	12925.0	25.1
70°-80°	10293.9	20.0
80°-90°	2364.4	4.6
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°	51502.0	100.0
0°-180°	51502.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639045

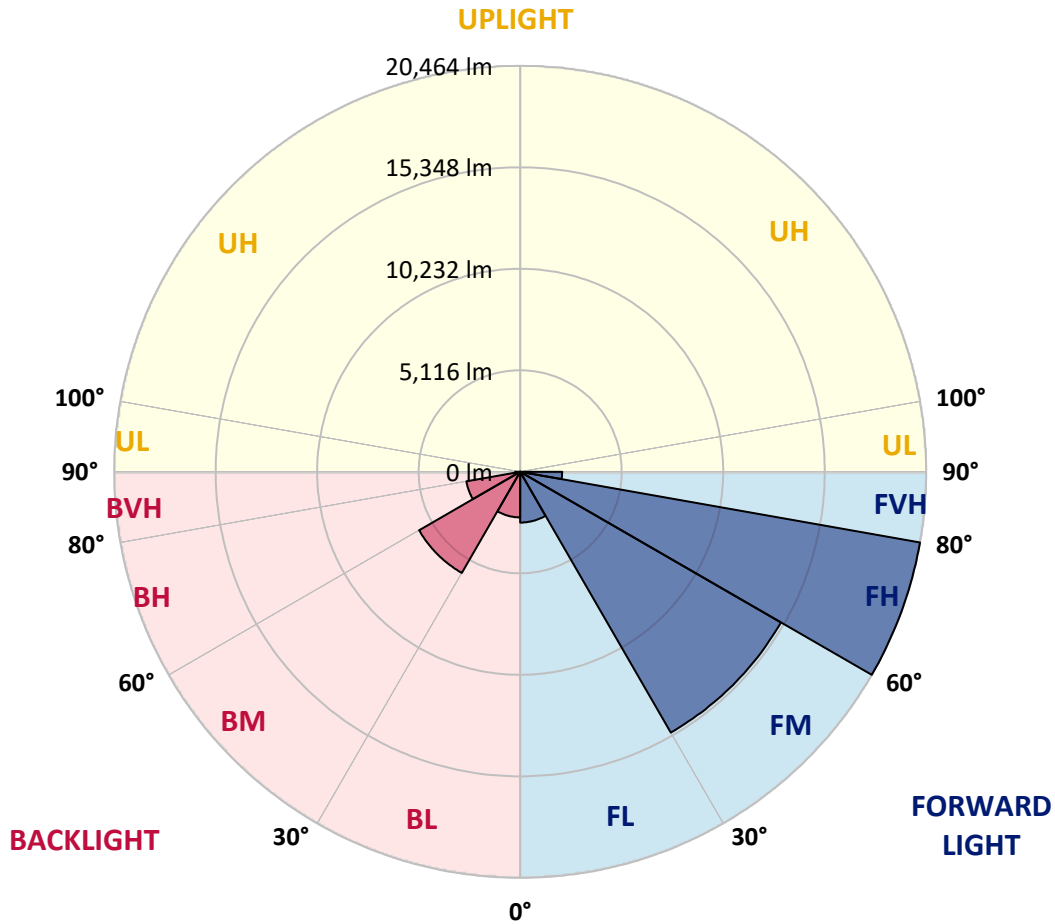
CATALOG NUMBER: USSL-M-C097-D-U-T4-BZ-7050

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2558.4	5.0			
FM (30°-60°)	15177.8	29.5			
FH (60°-80°)	20464.2	39.7			G5
FVH (80°-90°)	2117.1	4.1			G5
BL (0°-30°)	2297.6	4.5	B3/2500		
BM (30°-60°)	5884.9	11.4	B4/8500		
BH (60°-80°)	2754.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	247.3	0.5			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 IV Short





REPORT NUMBER: P639045

CATALOG NUMBER: USSL-M-C097-D-U-T4-BZ-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4
2.5°	4944.0	4942.0	4965.4	4943.0	4939.9	4923.7	4928.7	4947.1	4972.5	4967.4	4983.7
5°	4959.3	4957.3	4980.7	4949.1	4950.1	4941.0	4930.8	4953.2	4977.6	4978.6	5000.0
7.5°	4988.8	4997.0	5017.3	4989.8	5001.0	4985.8	4972.5	5000.0	5016.3	5009.2	5042.8
10°	5013.3	5018.4	5044.8	5031.6	5054.0	5048.9	5047.9	5080.5	5102.9	5081.5	5115.1
12.5°	5043.8	5055.0	5086.6	5084.5	5128.3	5126.3	5137.5	5190.5	5216.9	5197.6	5225.1
15°	5117.1	5128.3	5160.9	5169.1	5227.1	5238.3	5262.8	5331.0	5376.8	5357.5	5394.1
17.5°	5318.8	5312.7	5343.2	5341.2	5393.1	5403.3	5441.0	5530.6	5592.7	5600.8	5643.6
20°	5710.8	5723.0	5740.4	5718.0	5714.9	5705.7	5719.0	5780.1	5865.6	5912.5	5984.8
22.5°	6277.0	6244.4	6255.6	6177.2	6131.4	6126.3	6102.9	6131.4	6216.9	6281.1	6386.0
25°	6766.8	6770.9	6759.7	6660.9	6591.7	6579.5	6561.1	6583.5	6641.6	6725.1	6855.4
27.5°	7173.2	7159.9	7160.9	7048.9	6977.6	6955.2	6947.1	7072.3	7187.4	7244.4	7437.9
30°	7535.7	7503.1	7488.8	7393.1	7360.5	7345.3	7341.2	7545.9	7760.7	7917.6	8169.1
32.5°	8176.2	8144.6	7999.0	7764.8	7709.8	7705.7	7715.9	7988.8	8362.6	8650.8	9055.0
35°	8841.2	8824.9	8746.5	8455.2	8127.3	8063.2	8109.0	8466.4	8972.6	9564.2	10071.3
37.5°	9645.7	9616.1	9516.3	9156.9	8790.3	8621.2	8548.9	8927.7	9620.2	10717.0	11339.2
40°	10636.5	10540.8	10377.9	9901.3	9593.7	9437.9	9158.9	9481.7	10419.6	12086.6	12667.1
42.5°	11428.8	11402.3	11186.4	10754.6	10366.7	10178.3	9971.5	10130.4	11389.1	13488.9	13984.8
45°	12059.1	12084.6	11962.4	11583.6	11225.1	11114.1	10988.9	11231.2	12532.7	14999.1	15147.7
47.5°	12670.1	12689.5	12539.8	12272.0	12055.1	11980.7	12027.6	12555.1	13860.6	16274.0	16123.3
50°	13587.6	13512.3	13014.3	12876.8	12756.7	12792.3	13087.6	13734.3	15390.1	17507.2	17031.7
52.5°	15126.4	14841.2	13944.1	13659.9	13727.2	13856.5	14145.7	14940.0	17062.2	18475.7	17779.1
55°	17294.4	16847.3	15797.4	14843.3	14767.9	14961.4	15297.4	16190.5	18508.2	19366.7	18392.2
57.5°	18840.2	18822.9	18235.3	17361.6	16241.4	16267.9	16572.4	17384.0	19683.4	20255.7	18871.8
60°	20319.9	20419.7	20705.8	20177.3	19060.2	18593.8	18247.5	18588.7	20729.2	20963.5	19211.9
62.5°	21510.3	21585.7	22676.3	22840.2	23295.4	22790.3	21238.4	20141.7	21682.4	21405.4	19317.8
65°	21471.6	21458.4	22976.7	24139.6	26465.5	26848.4	25854.5	22224.1	22849.4	21632.5	19186.5
67.5°	19743.5	19697.7	21178.3	23993.0	28468.6	28715.0	28137.6	25491.0	23234.3	21599.9	18724.1
70°	17088.7	17401.3	18628.4	22394.2	29014.4	29144.8	28515.4	26893.2	23146.8	21240.4	17613.1
72.5°	14278.1	14373.8	15806.6	19642.7	28034.8	28074.5	27640.7	26578.6	22564.3	20397.3	15411.5
75°	11234.3	11195.6	12537.7	15860.6	25569.4	26263.9	26078.5	25539.8	21286.3	17999.1	11783.2
77.5°	7889.0	7837.1	9204.7	12243.4	21105.0	22661.0	23693.6	23228.2	18166.1	13510.3	6502.1
80°	3967.4	4290.2	5687.4	8742.4	16450.2	18116.2	19214.0	18421.7	13133.5	7507.2	1952.1
82.5°	1433.8	1494.9	2732.2	5397.2	11533.7	12600.9	13607.0	12316.8	6491.9	1880.9	403.3
85°	688.4	716.9	1119.2	2784.1	7046.9	7600.9	7998.0	5269.9	1210.8	360.5	228.1
87.5°	324.8	341.1	509.2	1110.0	2918.5	3030.6	2845.2	1532.6	211.8	136.5	94.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639045

CATALOG NUMBER: USSL-M-C097-D-U-T4-BZ-7050

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4
2.5°	4977.6	4985.8	4999.0	4981.7	4972.5	4980.7	5000.0	4998.0	5010.2	5015.3	5005.1
5°	4998.0	5009.2	5029.6	5025.5	5024.5	5045.9	5071.3	5082.5	5097.8	5099.8	5085.6
7.5°	5040.8	5056.0	5080.5	5090.7	5105.9	5126.3	5161.9	5165.0	5185.4	5181.3	5172.1
10°	5121.2	5141.6	5180.3	5198.6	5202.7	5219.0	5245.4	5240.4	5246.5	5243.4	5229.2
12.5°	5232.2	5256.6	5311.6	5346.3	5335.1	5323.9	5310.6	5285.2	5272.9	5263.8	5250.5
15°	5404.3	5445.0	5510.2	5512.2	5468.5	5410.4	5367.6	5291.3	5243.4	5214.9	5192.5
17.5°	5680.3	5714.9	5807.6	5745.4	5641.6	5524.5	5396.2	5236.3	5108.0	5026.5	4992.9
20°	6014.3	6082.5	6170.1	6038.7	5863.6	5651.8	5420.6	5147.7	4876.8	4699.6	4663.0
22.5°	6448.1	6528.5	6526.5	6314.7	6066.2	5748.5	5425.7	5021.4	4592.7	4254.6	4203.7
25°	6959.3	6993.9	6875.8	6543.8	6181.3	5771.9	5350.3	4810.6	4186.4	3789.2	3760.7
27.5°	7466.4	7467.5	7186.4	6713.9	6189.4	5688.4	5161.9	4444.0	3763.8	3458.3	3424.7
30°	8146.7	7986.8	7473.6	6790.3	6099.8	5480.7	4792.3	3978.6	3408.4	3138.5	3105.9
32.5°	8891.1	8594.7	7721.0	6767.9	5906.3	5143.6	4308.6	3578.4	3123.2	2854.4	2827.9
35°	9806.6	9315.7	7975.6	6666.0	5549.9	4704.7	3850.3	3280.1	2895.1	2598.8	2548.9
37.5°	10936.9	10287.2	8302.5	6491.9	5157.9	4154.8	3467.4	3020.4	2677.2	2342.2	2270.9
40°	12185.4	11305.6	8725.1	6309.6	4713.9	3763.8	3192.5	2867.6	2538.7	2172.1	2103.9
42.5°	13355.5	12391.1	9267.9	6114.1	4308.6	3448.1	3075.4	2848.3	2500.0	2124.2	2043.8
45°	14467.5	13334.1	9821.8	5861.5	3884.9	3205.7	3026.5	2819.8	2466.4	2091.7	2007.1
47.5°	15350.4	14164.0	10325.9	5596.8	3511.2	3031.6	2953.2	2719.0	2387.0	2033.6	1957.2
50°	16162.0	14809.7	10715.9	5358.5	3172.1	2895.1	2815.7	2555.0	2236.3	1952.1	1886.0
52.5°	16792.3	15320.9	10934.9	5331.0	2843.2	2717.9	2623.2	2366.6	2097.8	1839.1	1775.0
55°	17232.3	15676.3	10963.4	5197.6	2559.1	2487.8	2379.8	2202.7	2024.5	1800.4	1745.4
57.5°	17515.4	15812.7	10774.0	4393.1	2265.8	2175.2	2129.3	2084.5	1955.2	1727.1	1685.3
60°	17662.0	15715.0	10321.8	3233.2	1977.6	1876.8	1953.2	1952.1	1848.3	1621.2	1586.6
62.5°	17607.0	15426.8	9417.6	2319.8	1714.9	1722.0	1806.5	1792.3	1643.6	1430.8	1391.0
65°	17207.8	14781.1	7879.9	1676.2	1592.7	1675.2	1741.4	1669.1	1479.6	1276.0	1250.5
67.5°	16348.4	13536.7	5505.1	1485.8	1561.1	1653.8	1718.9	1608.0	1412.4	1198.6	1175.2
70°	14908.4	11306.6	2662.9	1408.4	1503.1	1610.0	1672.1	1545.8	1352.3	1127.3	1091.7
72.5°	12216.0	7864.6	1103.9	1324.9	1431.8	1508.2	1600.8	1477.6	1257.6	1009.2	980.7
75°	7660.9	3810.6	916.5	1228.1	1321.8	1397.2	1489.8	1346.2	1092.7	781.1	756.6
77.5°	3336.1	897.2	863.5	1106.9	1226.1	1272.9	1351.3	1281.1	1001.0	686.4	668.0
80°	645.6	563.1	818.7	919.6	1055.0	1119.2	1159.9	1114.1	843.2	523.4	436.9
82.5°	368.6	481.7	712.8	685.3	834.0	826.9	904.3	911.4	673.1	254.6	228.1
85°	250.5	405.3	478.6	423.6	487.8	501.0	654.8	637.5	458.3	152.8	123.2
87.5°	118.1	123.2	158.9	144.6	192.5	279.0	378.8	339.1	200.6	86.6	73.3
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)