

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: P639084

Luminaire Tested: **USSL-M-C098-D-U-T4-BZ-7030-HSS**

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P639084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-M-C098-D-U-T4-BZ-7030-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

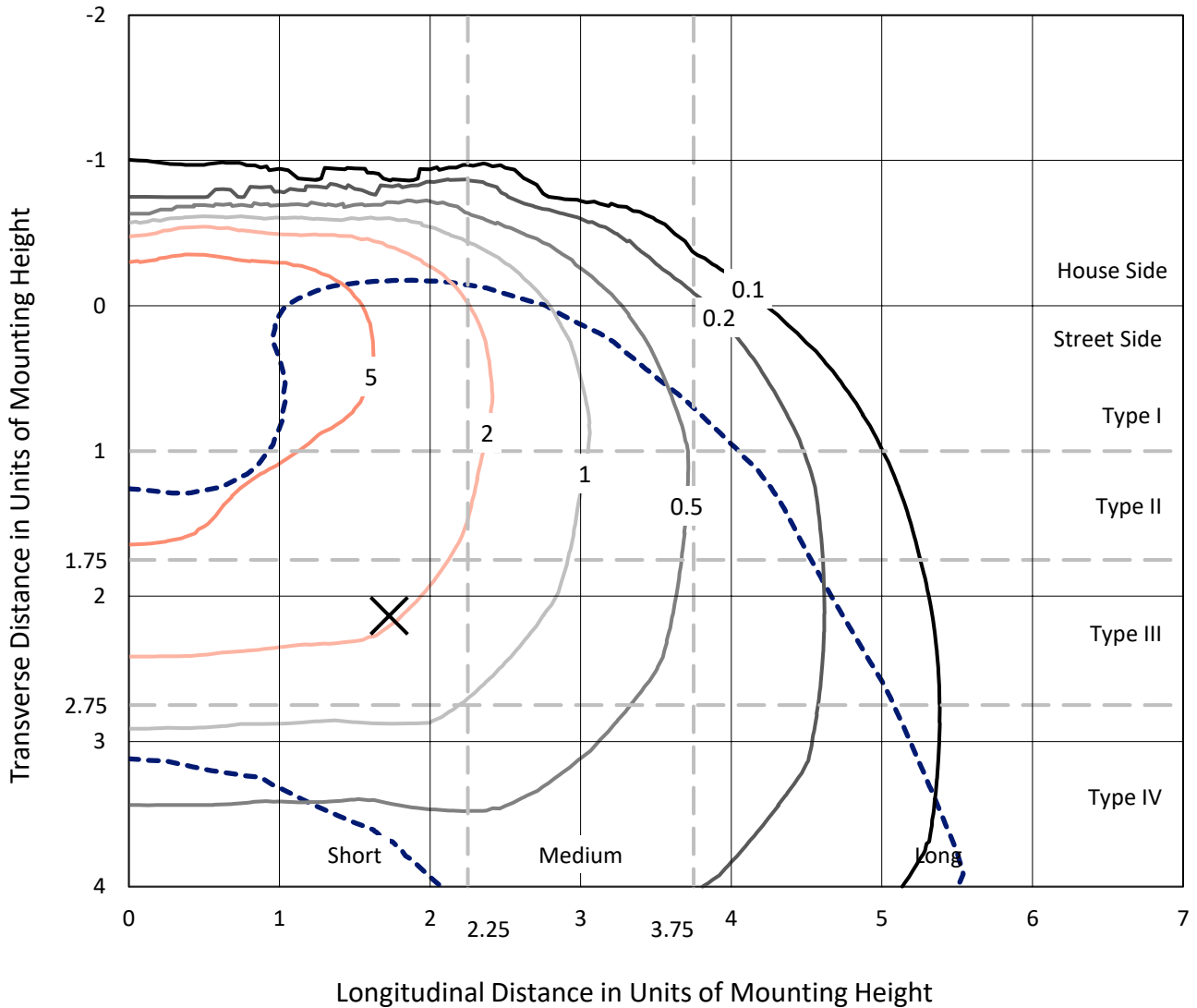
Lumens per Lamp: N/A  
Luminaire Lumens: 53591 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 418.1  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

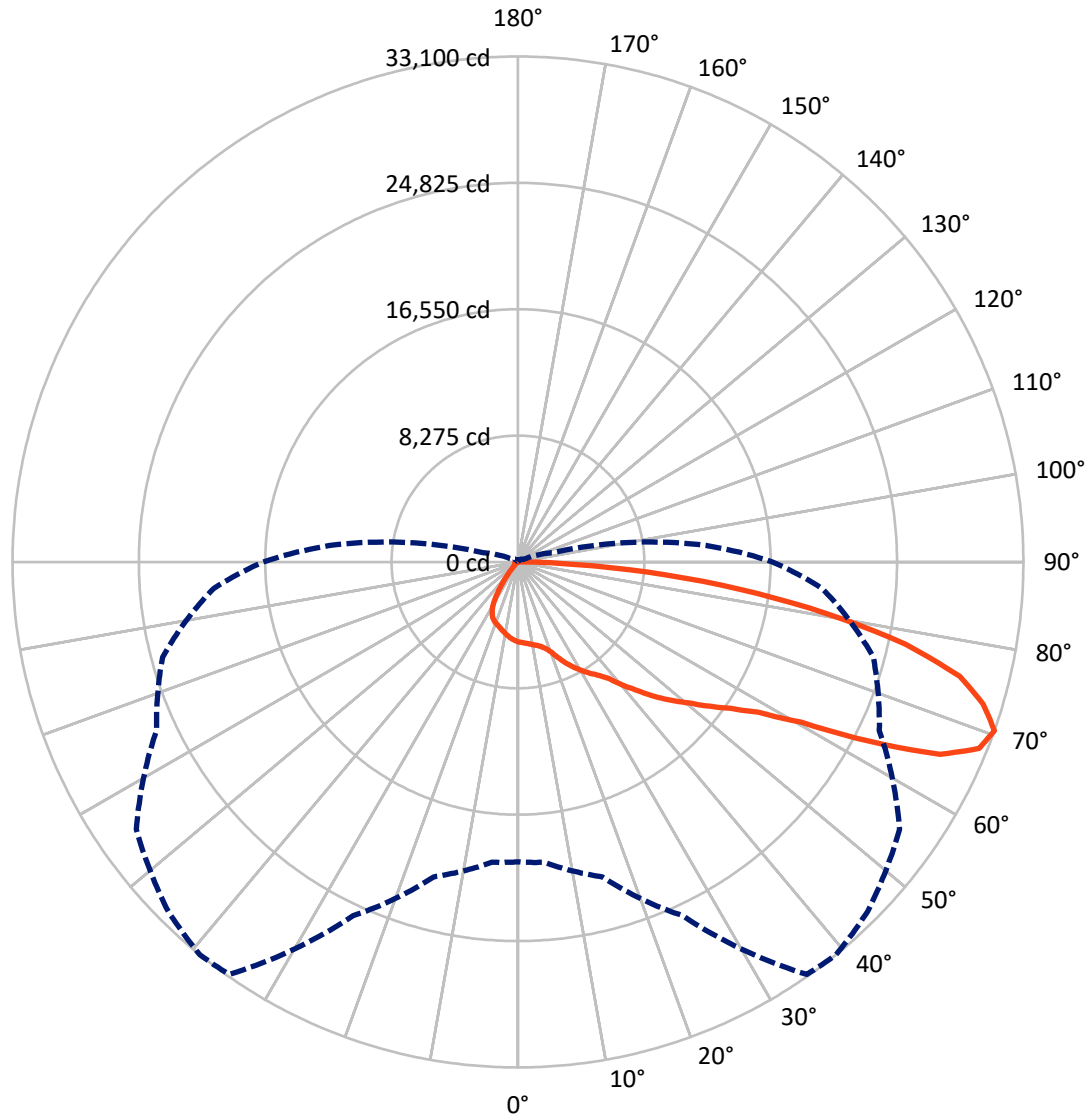
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: USSL-M-C098-D-U-T4-BZ-7030-HSS

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: USSL-M-C098-D-U-T4-BZ-7030-HSS

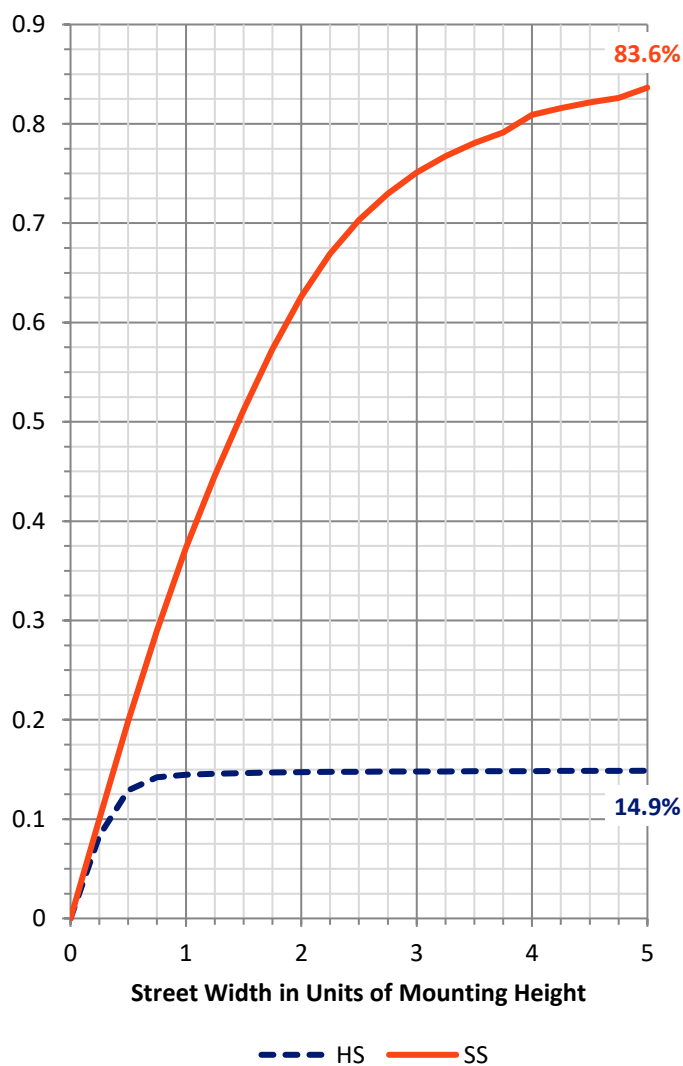
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8058.3	0.0	8058.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	45532.7	0.0	45532.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	53591.0	0.0	53591.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.6	0.9
10°-20°	1501.8	2.8
20°-30°	2769.7	5.2
30°-40°	4380.6	8.2
40°-50°	6867.3	12.8
50°-60°	10138.7	18.9
60°-70°	13902.5	25.9
70°-80°	11123.8	20.8
80°-90°	2409.0	4.5
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°	53591.0	100.0
0°-180°	53591.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639084

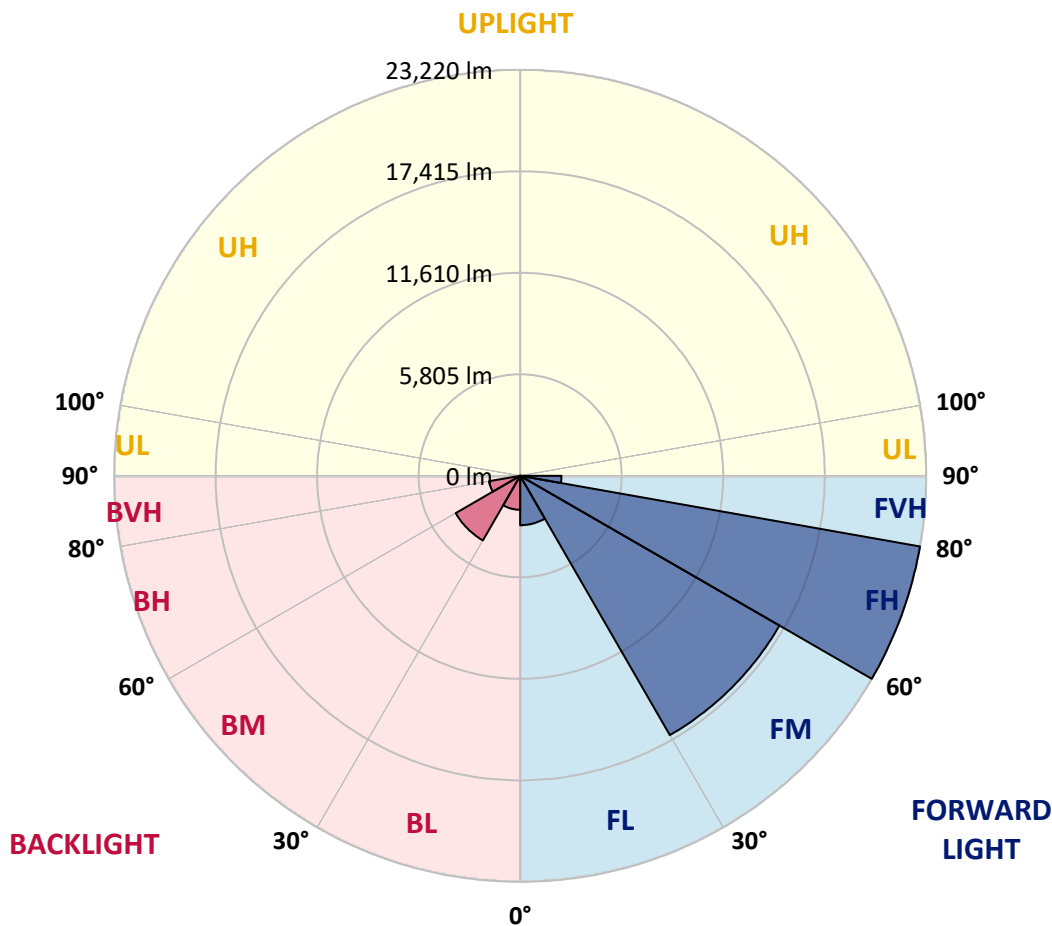
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2826.4	5.3			
FM (30°-60°)	17124.6	32.0			
FH (60°-80°)	23220.1	43.3			G5
FVH (80°-90°)	2361.6	4.4			G5
BL (0°-30°)	1942.6	3.6	B3/2500		
BM (30°-60°)	4262.0	8.0	B3/5000		
BH (60°-80°)	1806.3	3.4	B3/2500		G3/2500
BVH (80°-90°)	47.4	0.1			G1/100
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°	35°	39°	45°	55°	65°	75°	85°
0°	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5
2.5°	5322.3	5314.2	5339.7	5309.5	5301.4	5274.7	5277.1	5289.8	5300.2	5278.2	5275.9
5°	5386.0	5383.7	5401.1	5372.1	5366.3	5344.3	5336.2	5348.9	5352.4	5318.8	5303.7
7.5°	5447.5	5445.2	5469.5	5435.9	5442.8	5416.2	5405.7	5416.2	5420.8	5380.2	5364.0
10°	5488.0	5485.7	5512.4	5496.2	5525.1	5508.9	5505.4	5522.8	5536.7	5477.6	5452.1
12.5°	5544.8	5543.7	5577.3	5570.4	5614.4	5605.1	5621.4	5656.1	5678.2	5623.7	5579.6
15°	5636.4	5646.9	5678.2	5684.0	5745.4	5751.2	5776.7	5833.5	5868.3	5812.6	5772.1
17.5°	5895.0	5876.4	5920.5	5923.9	5950.6	5968.0	5987.7	6078.1	6129.1	6096.7	6067.7
20°	6393.4	6390.0	6388.8	6363.3	6349.4	6323.9	6330.8	6379.5	6457.2	6461.8	6468.8
22.5°	7019.5	7046.1	7034.5	6956.9	6865.3	6839.8	6807.3	6800.4	6850.2	6879.2	6919.8
25°	7631.6	7613.0	7638.5	7477.4	7377.7	7342.9	7326.7	7347.5	7370.7	7404.3	7469.3
27.5°	8084.8	8062.8	8041.9	7933.0	7847.2	7810.1	7822.8	7900.5	7987.5	8006.0	8110.3
30°	8475.5	8434.9	8409.4	8353.8	8294.7	8250.6	8263.4	8444.2	8670.3	8750.3	8940.4
32.5°	9159.5	9136.3	9004.1	8720.1	8698.1	8691.1	8703.9	9000.7	9351.9	9580.3	9886.4
35°	9947.8	9923.5	9797.1	9514.2	9152.5	9112.0	9167.6	9502.6	10078.8	10665.4	11152.3
37.5°	10806.8	10818.4	10707.1	10351.2	9906.1	9696.2	9633.6	10077.6	10818.4	12047.3	12528.4
40°	11969.6	11909.3	11663.5	11173.2	10812.6	10616.7	10306.0	10671.2	11730.8	13525.4	14113.1
42.5°	12872.7	12875.0	12604.9	12119.1	11635.7	11523.3	11316.9	11452.6	12828.6	15213.3	15555.3
45°	13593.8	13657.5	13494.1	13033.8	12706.9	12562.0	12398.5	12688.4	14143.3	16873.4	16907.0
47.5°	14261.5	14305.6	14145.6	13847.6	13618.1	13534.6	13606.5	14174.6	15535.5	18345.7	18048.9
50°	15339.6	15281.7	14713.6	14500.3	14436.5	14504.9	14795.9	15616.7	17433.3	19637.1	19153.7
52.5°	17198.0	16839.7	15821.9	15474.1	15512.4	15692.1	16016.7	16955.7	19282.4	20842.7	20006.9
55°	19753.0	19240.6	17964.2	16932.5	16716.9	16919.7	17288.4	18244.8	20949.4	21869.9	20699.0
57.5°	21490.8	21389.9	20832.3	19594.2	18316.7	18555.5	18815.2	19658.0	22250.1	22862.2	21289.1
60°	23141.6	23217.0	23643.6	23002.5	21700.6	21306.5	20641.0	21126.8	23482.4	23688.8	21680.9
62.5°	24444.6	24568.7	25748.8	25796.4	26547.6	25867.1	24044.7	22784.5	24587.2	24233.6	21814.2
65°	24371.6	24433.0	26176.6	27402.0	30121.6	30370.9	29150.2	25066.0	25712.9	24506.1	21679.7
67.5°	22309.2	22528.3	24117.7	27224.6	32231.5	32579.3	31952.2	28859.2	26356.3	24470.1	21146.5
70°	19642.9	19739.1	21343.6	25561.0	32970.0	33099.8	32378.8	30510.0	26109.4	24091.1	20011.5
72.5°	16125.6	16345.9	17900.5	22233.9	31935.9	31857.1	31446.7	30159.9	25635.2	23050.0	17526.0
75°	12530.7	12677.9	14106.2	18163.6	29224.4	29881.7	29577.9	28980.9	24210.5	20381.4	13048.9
77.5°	8489.4	8888.2	10266.6	14026.2	24285.8	25964.5	26903.5	26425.9	20843.9	15439.3	7550.4
80°	4816.8	4695.1	6468.8	9786.7	18630.8	20551.8	21875.7	21207.9	14853.9	8261.0	1990.5
82.5°	1534.9	1706.5	3043.1	5936.7	13153.2	14631.3	15605.1	13874.3	7507.5	2152.8	409.2
85°	697.9	751.2	1257.8	2900.5	7703.4	8479.0	8540.4	6121.0	1208.0	427.8	255.0
87.5°	292.1	292.1	595.9	1300.7	3322.5	2696.5	1704.1	1748.2	244.6	193.6	133.3
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°	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5	5236.5
2.5°	5252.7	5250.4	5237.6	5197.1	5163.4	5154.2	5154.2	5131.0	5135.6	5139.1	5117.1
5°	5275.9	5268.9	5228.4	5161.1	5095.0	5053.3	5038.2	4998.8	4987.2	4969.8	4954.8
7.5°	5319.9	5300.2	5231.8	5134.5	5032.4	4958.3	4902.6	4829.6	4791.3	4778.6	4746.1
10°	5409.2	5374.4	5275.9	5133.3	4980.3	4843.5	4734.5	4627.9	4562.9	4513.1	4491.1
12.5°	5532.1	5489.2	5364.0	5171.6	4946.7	4742.6	4565.3	4414.5	4314.9	4256.9	4241.8
15°	5717.6	5668.9	5506.6	5252.7	4940.9	4651.0	4398.3	4166.5	4025.0	3918.4	3897.5
17.5°	6012.0	5973.8	5753.5	5402.3	4998.8	4600.0	4224.4	3879.0	3627.4	3510.3	3462.8
20°	6417.8	6367.9	6109.4	5633.0	5119.4	4578.0	4056.3	3574.1	3206.6	2962.0	2899.4
22.5°	6897.7	6823.5	6486.2	5883.4	5230.7	4544.4	3896.3	3270.3	2748.7	2355.7	2311.6
25°	7458.8	7374.2	6830.5	6082.8	5275.9	4458.6	3683.0	2922.6	2185.2	1767.9	1744.7
27.5°	8081.4	7892.4	7172.5	6236.9	5241.1	4285.9	3370.0	2396.2	1576.6	1254.3	1199.9
30°	8811.7	8490.6	7495.9	6330.8	5137.9	4014.6	2922.6	1697.2	1045.7	809.2	802.2
32.5°	9597.7	9152.5	7819.4	6349.4	4944.3	3640.1	2205.0	1073.5	595.9	466.0	471.8
35°	10716.4	10031.3	8171.8	6303.0	4633.7	3088.3	1453.7	612.1	330.4	293.3	278.2
37.5°	11962.6	11114.0	8556.7	6131.4	4171.1	2326.7	868.3	297.9	243.4	233.0	229.5
40°	13423.3	12310.4	9004.1	5874.1	3575.2	1597.5	408.1	234.2	222.6	216.8	216.8
42.5°	14778.5	13538.1	9578.0	5530.9	2884.3	930.9	271.3	224.9	200.6	198.2	199.4
45°	16003.9	14604.6	10099.7	5129.8	2169.0	469.5	262.0	200.6	178.5	178.5	178.5
47.5°	17092.5	15488.0	10476.4	4624.4	1486.2	310.7	262.0	183.2	162.3	161.1	162.3
50°	18003.7	16231.1	10718.7	4071.4	875.3	291.0	240.0	173.9	147.2	150.7	150.7
52.5°	18707.3	16763.2	10750.0	3387.4	479.9	284.0	228.4	161.1	134.5	154.2	158.8
55°	19271.9	17112.2	10569.2	2601.4	351.3	266.6	223.7	149.5	133.3	175.1	183.2
57.5°	19627.8	17268.7	10135.6	1765.6	325.8	244.6	208.7	136.8	126.4	155.3	161.1
60°	19808.7	17214.2	9482.9	1106.0	318.8	238.8	192.4	131.0	112.5	112.5	113.6
62.5°	19769.3	16912.8	8588.0	663.1	297.9	229.5	180.8	126.4	93.9	76.5	76.5
65°	19321.8	16241.6	7142.3	475.3	282.9	228.4	172.7	119.4	80.0	59.1	55.6
67.5°	18409.4	14938.5	4989.6	415.0	289.8	228.4	172.7	114.8	75.4	47.5	42.9
70°	16683.2	12364.9	2331.3	380.2	300.3	237.7	176.2	113.6	67.2	37.1	33.6
72.5°	13480.1	8563.6	568.0	308.4	302.6	237.7	190.1	112.5	60.3	29.0	25.5
75°	8668.0	4040.1	404.6	236.5	266.6	228.4	192.4	134.5	63.8	18.5	16.2
77.5°	3465.1	776.7	358.2	165.8	250.4	253.9	208.7	142.6	78.8	9.3	4.6
80°	597.0	361.7	335.0	111.3	206.4	259.7	164.6	118.2	75.4	3.5	0.0
82.5°	337.4	307.2	284.0	68.4	157.7	175.1	100.9	84.6	74.2	3.5	0.0
85°	253.9	255.0	124.0	52.2	75.4	109.0	39.4	24.3	67.2	2.3	0.0
87.5°	147.2	80.0	40.6	31.3	31.3	42.9	15.1	10.4	9.3	2.3	1.2
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)