

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: P481176

Luminaire Tested: **IFLD-S-SA6C-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481176
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

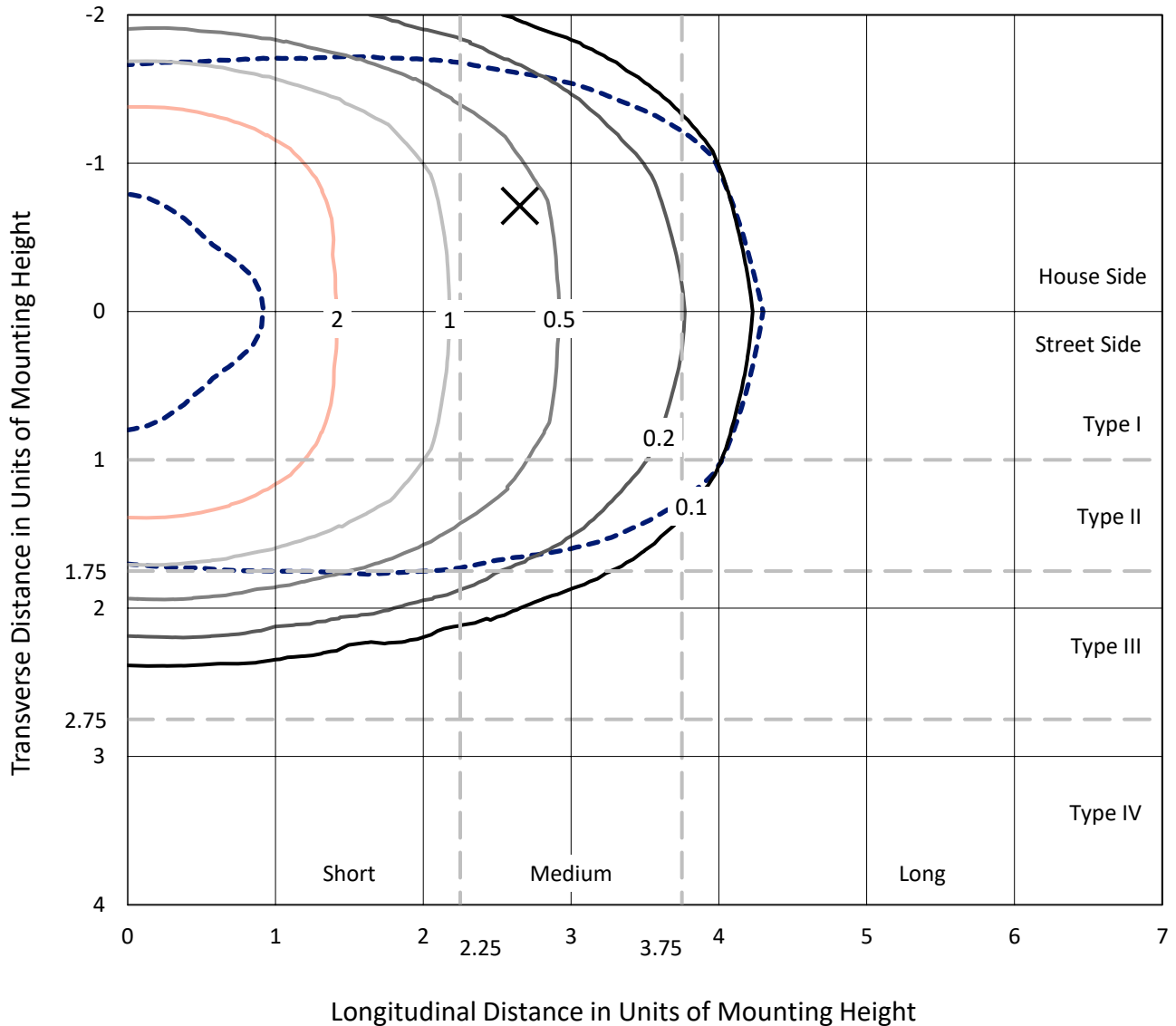
Lumens per Lamp: N/A
Luminaire Lumens: 35793.2 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 321.5
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

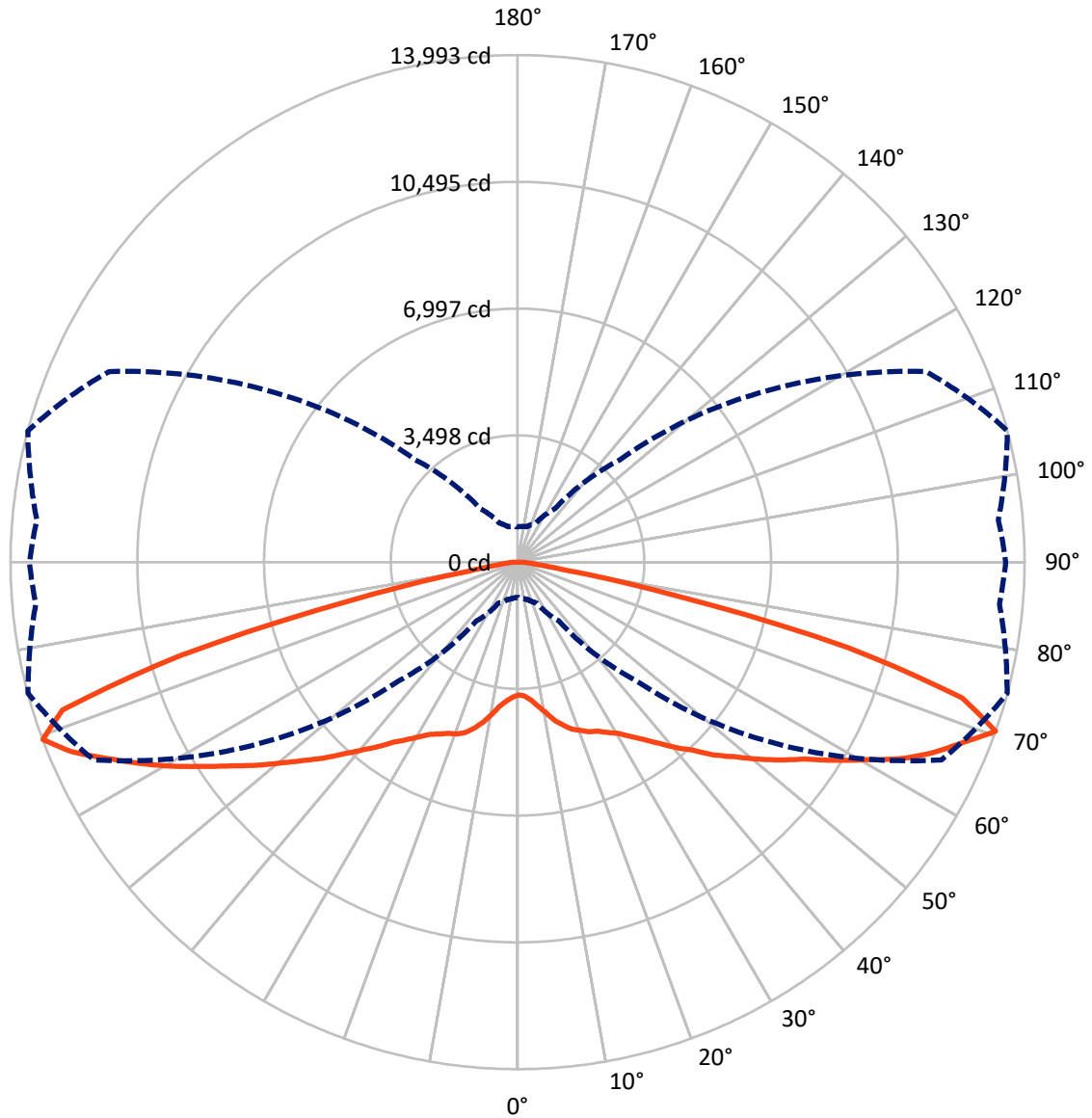
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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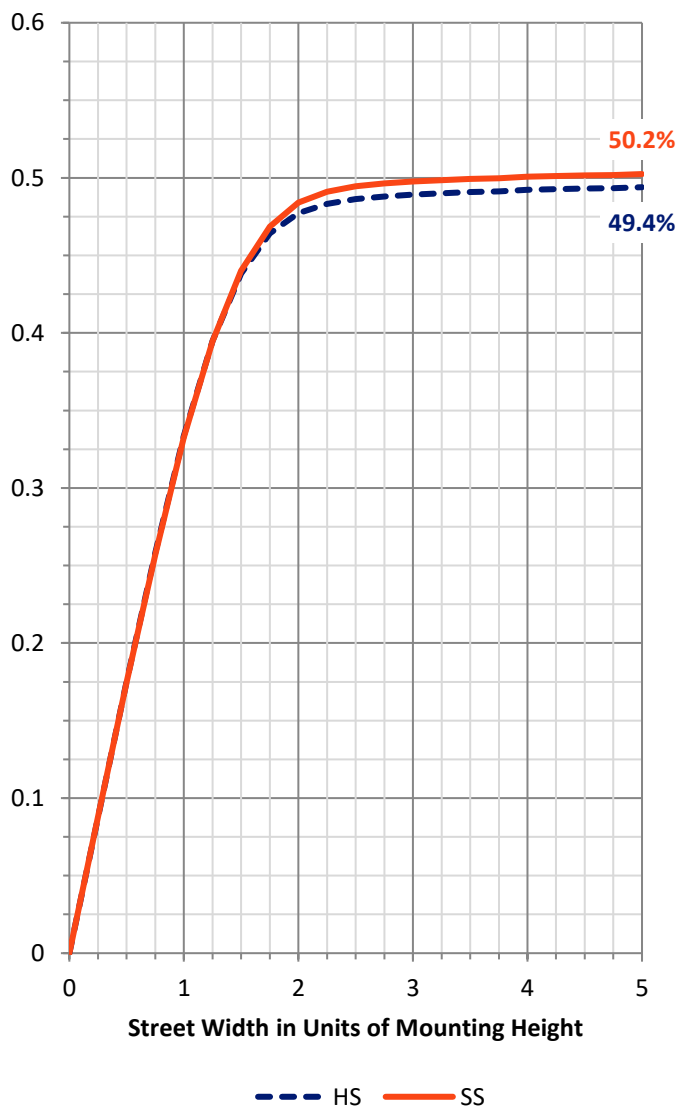
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17769.3	0.0	17769.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18023.9	0.0	18023.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	35793.2	0.0	35793.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	1.0
10°-20°	1242.1	3.5
20°-30°	2405.2	6.7
30°-40°	4068.2	11.4
40°-50°	6490.0	18.1
50°-60°	8883.4	24.8
60°-70°	8373.2	23.4
70°-80°	3688.6	10.3
80°-90°	277.5	0.8
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°	35793.2	100.0
0°-180°	35793.2	100.0

Coefficient of Utilization

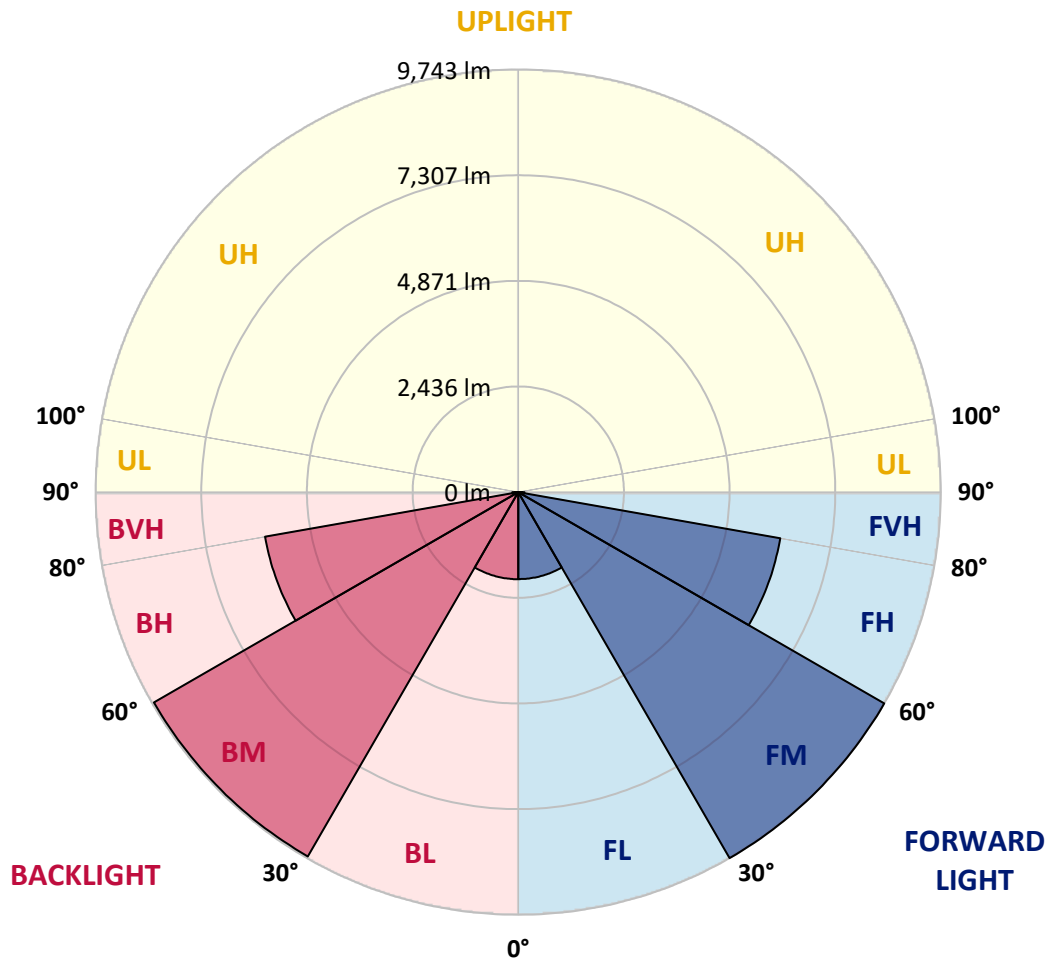


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2005.0	5.6			
FM (30°-60°)	9742.6	27.2			
FH (60°-80°)	6134.6	17.1			G3/7500
FVH (80°-90°)	141.8	0.4			G2/225
BL (0°-30°)	2007.2	5.6	B3/2500		
BM (30°-60°)	9699.1	27.1	B5		
BH (60°-80°)	5927.3	16.6	B5		G5
BVH (80°-90°)	135.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2
2.5°	3642.0	3642.0	3638.2	3657.5	3676.8	3684.5	3699.9	3703.8	3726.9	3707.6	3746.2
5°	3630.5	3626.6	3657.5	3703.8	3703.8	3753.9	3784.8	3827.2	3838.8	3862.0	3869.7
7.5°	3711.5	3703.8	3688.3	3738.5	3780.9	3858.1	3900.5	3973.8	4000.8	4031.7	4066.4
10°	3761.6	3761.6	3746.2	3834.9	3873.5	3977.7	4070.3	4143.6	4247.8	4282.5	4286.3
12.5°	3769.4	3780.9	3827.2	3943.0	4051.0	4186.0	4255.5	4394.4	4498.5	4564.1	4587.3
15°	3885.1	3862.0	3912.1	4070.3	4228.5	4348.1	4471.5	4571.8	4722.3	4807.2	4861.2
17.5°	3989.3	3966.1	4058.7	4247.8	4409.8	4595.0	4703.0	4811.0	4919.1	4996.2	5000.1
20°	4155.2	4174.5	4255.5	4460.0	4672.2	4834.2	4957.7	4976.9	5031.0	5142.8	5123.6
22.5°	4359.6	4344.2	4514.0	4737.7	4969.2	5104.3	5173.7	5123.6	5096.5	5216.1	5243.2
25°	4564.1	4610.4	4764.7	4973.1	5250.9	5432.2	5451.5	5312.6	5212.3	5254.7	5243.2
27.5°	4876.6	4884.3	5046.4	5293.3	5574.9	5733.1	5721.6	5524.8	5331.9	5335.7	5343.5
30°	5277.9	5239.3	5416.8	5640.5	5918.3	6061.1	6080.4	5798.7	5540.2	5463.1	5482.4
32.5°	5663.7	5710.0	5864.3	6118.9	6323.4	6404.4	6362.0	6111.2	5775.6	5671.4	5683.0
35°	6157.5	6149.8	6362.0	6578.1	6732.4	6747.8	6713.1	6346.6	6030.2	5895.2	5841.2
37.5°	6686.1	6755.5	6894.4	7071.9	7233.9	7241.6	7052.6	6759.4	6369.7	6145.9	6211.5
40°	7276.4	7353.5	7453.8	7712.3	7831.9	7708.5	7515.6	7118.2	6713.1	6516.3	6547.2
42.5°	7797.2	7831.9	8036.4	8341.2	8399.1	8345.1	8059.6	7577.3	7106.6	6890.6	6906.0
45°	8275.6	8321.9	8588.1	8862.0	8997.1	8904.5	8572.7	8113.6	7565.7	7380.5	7307.2
47.5°	8715.4	8808.0	9066.5	9348.2	9556.5	9564.2	9155.3	8599.7	8021.0	7777.9	7774.1
50°	9012.5	9147.5	9402.2	9722.4	10027.2	10146.8	9737.8	9139.8	8518.7	8260.2	8233.2
52.5°	9174.6	9313.4	9568.1	10065.8	10405.3	10590.5	10397.6	9645.2	9101.2	8831.2	8788.7
55°	8977.8	9070.4	9487.1	10185.4	10710.1	11014.9	10887.5	10343.6	9680.0	9460.1	9498.6
57.5°	8140.6	8333.5	8846.6	9718.5	10702.4	11450.8	11439.3	11003.3	10347.4	10139.1	10146.8
60°	6701.5	6863.6	7496.3	8715.4	10270.3	11628.3	12037.3	11643.7	11095.9	10852.8	10845.1
62.5°	4730.0	4934.5	5667.5	6998.6	8997.1	11381.4	12724.0	12450.1	11828.9	11651.5	11717.0
65°	2646.7	2770.1	3449.1	4652.9	6855.8	10023.3	12847.5	13287.3	12573.5	12303.5	12315.0
67.5°	1415.9	1462.2	1778.6	2442.2	4193.8	7727.8	11601.3	13769.5	13379.9	12913.0	12839.7
70°	972.2	987.7	1068.7	1250.0	1983.1	4622.0	8750.2	12909.2	13985.6	13349.0	13472.5
72.5°	821.8	814.1	833.3	852.6	1037.8	2067.9	5135.1	9934.6	13202.4	12963.2	12916.9
75°	713.7	709.9	717.6	698.3	721.5	910.5	2272.4	6192.2	9664.5	10787.2	10960.9
77.5°	590.3	594.1	598.0	578.7	571.0	601.9	914.4	2720.0	4757.0	5250.9	5663.7
80°	447.5	455.3	486.1	466.8	436.0	439.8	540.1	910.5	1365.8	1238.4	1277.0
82.5°	304.8	308.6	374.2	351.1	327.9	297.1	347.2	470.7	532.4	405.1	354.9
85°	216.1	212.2	243.1	223.8	208.3	150.5	208.3	266.2	320.2	200.6	181.3
87.5°	50.2	50.2	100.3	81.0	77.2	61.7	81.0	104.2	138.9	88.7	81.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2	3665.2
2.5°	3734.6	3699.9	3699.9	3692.2	3661.3	3653.6	3626.6	3634.3	3615.0	3595.7
5°	3865.8	3819.5	3819.5	3753.9	3692.2	3684.5	3653.6	3653.6	3622.8	3630.5
7.5°	4047.1	4004.7	3935.3	3877.4	3792.5	3757.8	3699.9	3692.2	3684.5	3669.0
10°	4263.2	4209.2	4139.7	4020.1	3950.7	3885.1	3827.2	3746.2	3726.9	3730.8
12.5°	4556.4	4471.5	4321.1	4216.9	4128.2	4043.3	3958.4	3838.8	3811.8	3823.4
15°	4764.7	4656.7	4506.3	4467.7	4348.1	4243.9	4105.0	3970.0	3923.7	3912.1
17.5°	4934.5	4845.8	4757.0	4699.2	4602.7	4475.4	4282.5	4128.2	4024.0	4012.4
20°	5073.4	4957.7	4938.4	4973.1	4853.5	4768.6	4533.3	4344.2	4205.3	4147.5
22.5°	5158.3	5085.0	5139.0	5169.8	5162.1	5019.4	4776.3	4556.4	4382.8	4328.8
25°	5250.9	5166.0	5358.9	5463.1	5490.1	5254.7	5065.7	4776.3	4606.6	4571.8
27.5°	5297.2	5328.0	5551.8	5771.7	5752.4	5571.1	5316.5	5058.0	4922.9	4861.2
30°	5432.2	5482.4	5821.9	6068.8	6072.6	5895.2	5702.3	5409.1	5258.6	5231.6
32.5°	5675.3	5737.0	6099.7	6362.0	6408.3	6273.3	6080.4	5899.0	5744.7	5683.0
35°	5860.4	6018.6	6427.6	6666.8	6790.2	6709.2	6601.2	6412.2	6250.1	6196.1
37.5°	6126.7	6346.6	6740.1	7064.2	7203.1	7195.3	7114.3	6909.9	6774.8	6728.5
40°	6508.6	6728.5	7087.3	7515.6	7774.1	7762.5	7716.2	7558.0	7357.4	7334.2
42.5°	6913.7	7095.0	7561.9	8051.8	8422.2	8383.6	8260.2	8075.0	7936.1	7905.2
45°	7307.2	7588.9	8021.0	8649.9	8927.6	9024.1	8877.5	8561.1	8402.9	8383.6
47.5°	7801.1	8024.8	8565.0	9128.3	9541.1	9556.5	9305.7	9012.5	8723.2	8784.9
50°	8240.9	8538.0	9085.8	9703.1	10196.9	10019.5	9699.3	9332.7	9124.4	9043.4
52.5°	8711.6	9074.2	9710.8	10339.7	10613.6	10436.2	9915.3	9506.3	9190.0	9155.3
55°	9398.3	9587.4	10420.7	10903.0	10991.7	10617.5	9849.7	9271.0	8862.0	8761.7
57.5°	10096.6	10316.5	11045.7	11462.4	11369.8	10517.2	9425.3	8530.3	7994.0	7851.2
60°	10802.7	11072.7	11686.2	12068.1	11589.7	9826.6	8225.5	7071.9	6446.9	6319.6
62.5°	11589.7	11940.8	12488.7	12623.7	10937.7	8460.8	6527.9	5104.3	4471.5	4259.3
65°	12288.0	12646.8	13322.0	12507.9	9552.6	6311.8	4220.8	2916.7	2449.9	2280.1
67.5°	12862.9	13268.0	13599.8	11068.9	6994.7	3696.1	2199.1	1535.5	1361.9	1300.2
70°	13318.1	13993.3	12442.4	8136.7	3997.0	1801.7	1188.3	1010.8	987.7	972.2
72.5°	12920.8	12832.0	9290.3	4695.3	1751.6	991.5	860.4	833.3	829.5	833.3
75°	10567.3	9425.3	5555.7	2040.9	879.6	717.6	713.7	702.2	721.5	721.5
77.5°	5127.4	4483.1	2322.6	875.8	578.7	563.3	582.6	582.6	582.6	582.6
80°	1188.3	1315.6	829.5	532.4	420.5	420.5	463.0	466.8	447.5	439.8
82.5°	405.1	540.1	455.3	335.7	277.8	312.5	351.1	358.8	297.1	300.9
85°	200.6	316.4	246.9	192.9	142.7	192.9	227.6	239.2	204.5	196.8
87.5°	92.6	138.9	92.6	65.6	50.2	69.4	65.6	54.0	30.9	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)