

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: P481255

Luminaire Tested: **IFLD-S-SA6D-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481255
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

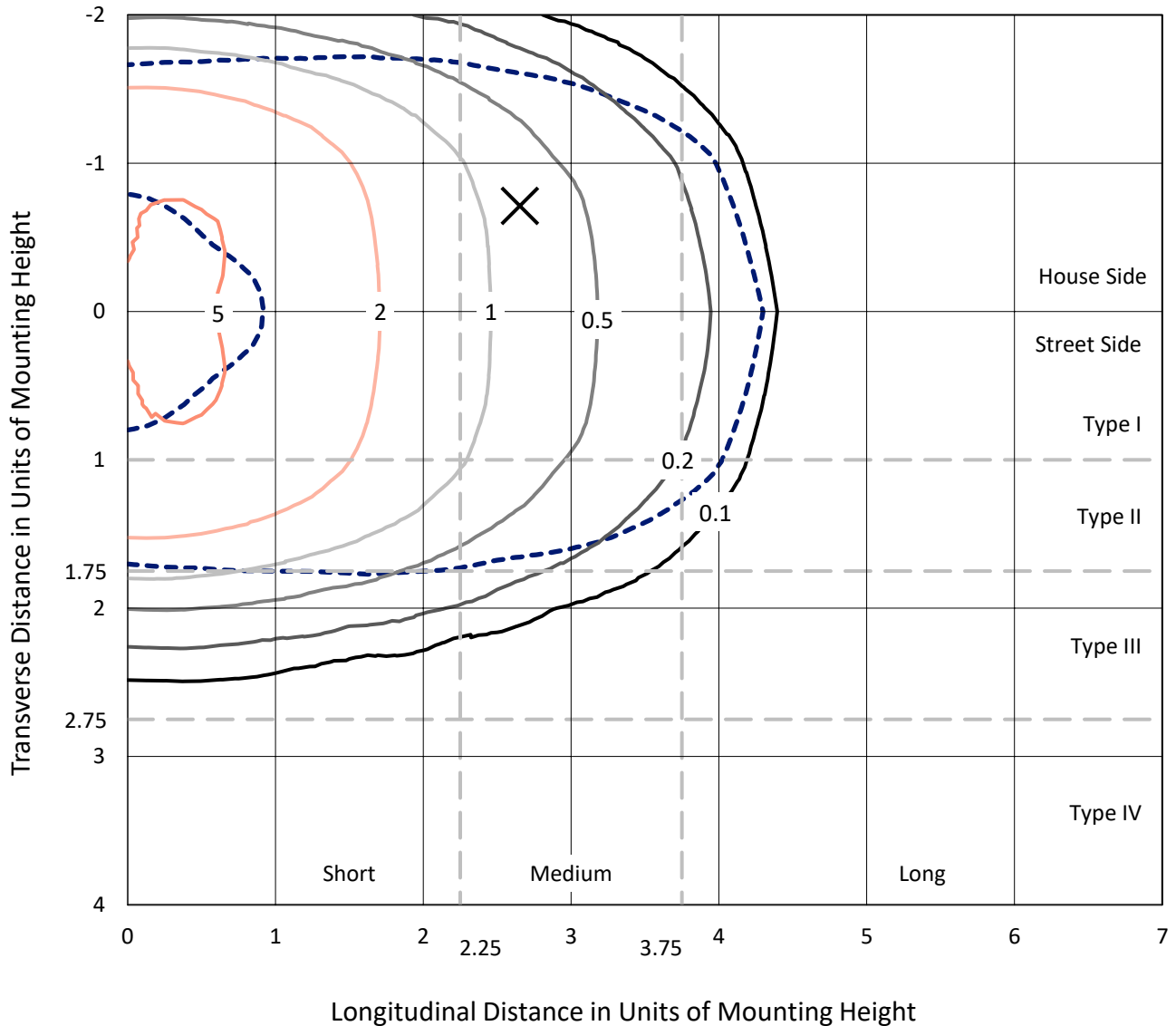
Lumens per Lamp: N/A
Luminaire Lumens: 46449.5 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368.2
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

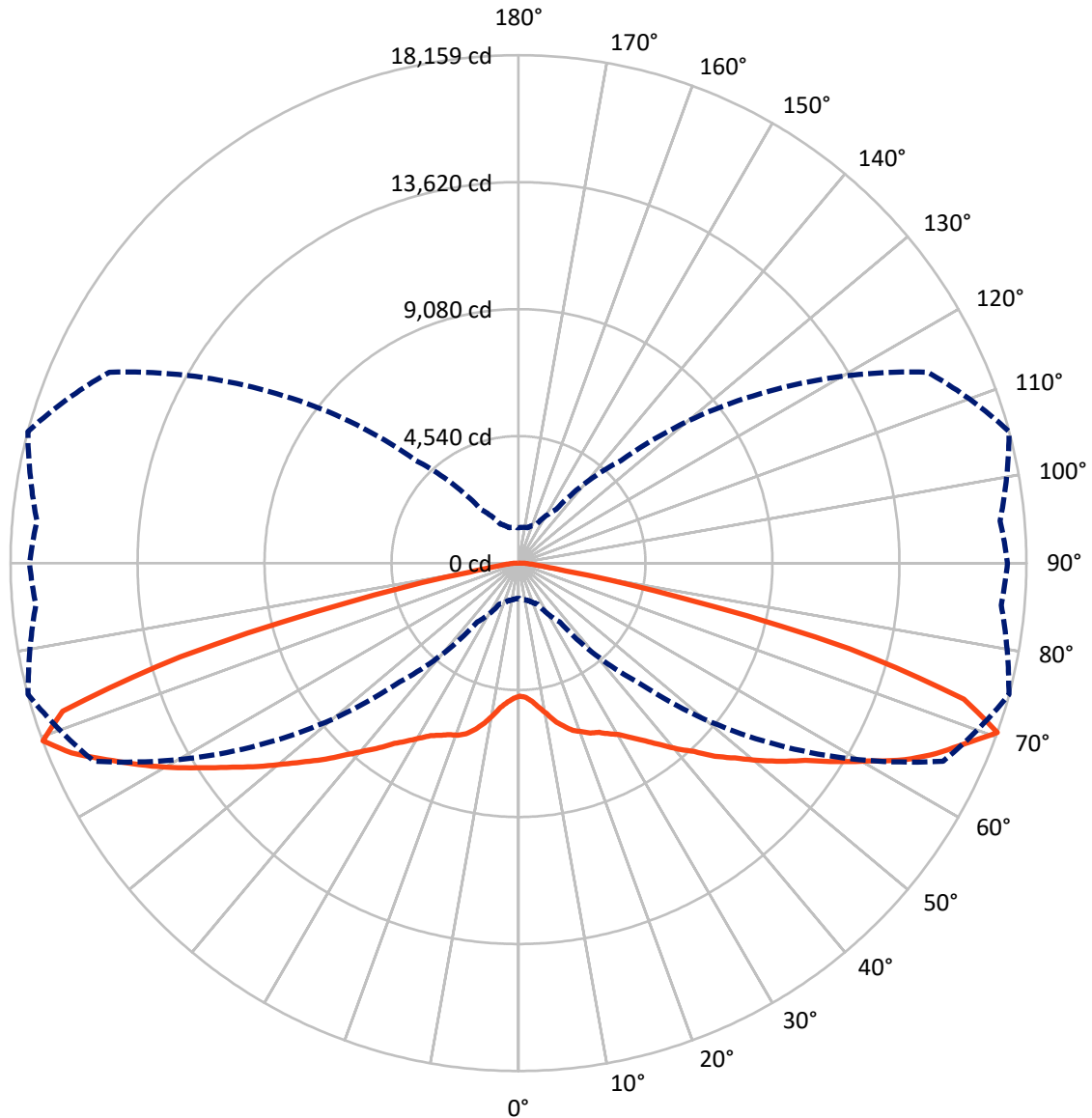
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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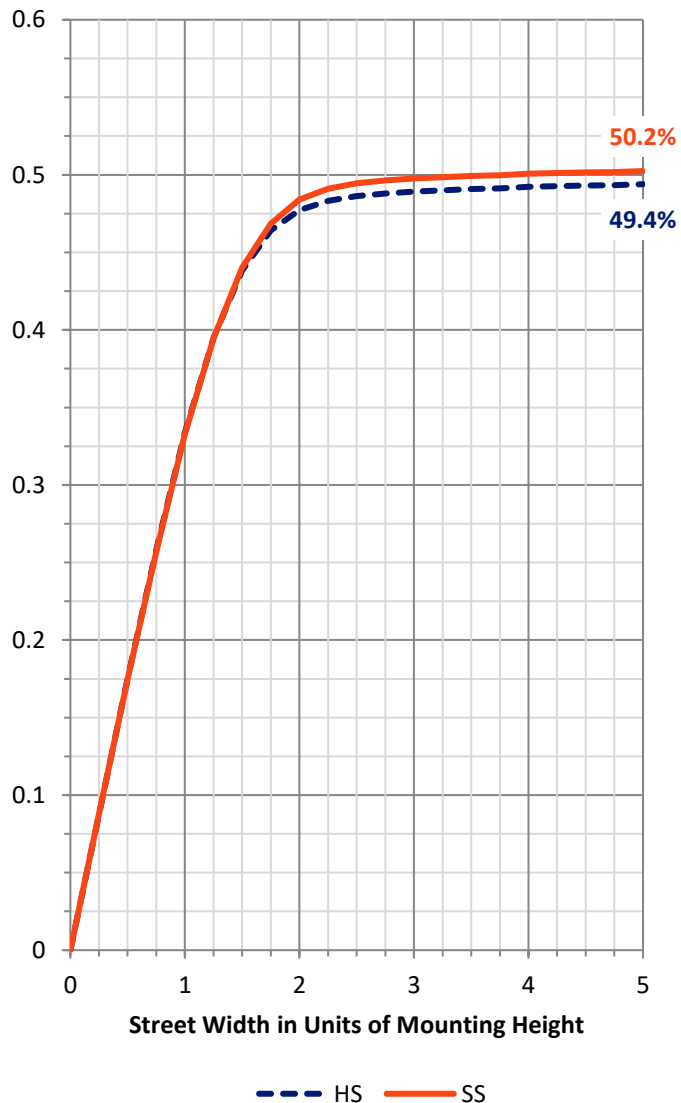
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23059.5	0.0	23059.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	23390.0	0.0	23390.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	46449.5	0.0	46449.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.4	1.0
10°-20°	1612.0	3.5
20°-30°	3121.3	6.7
30°-40°	5279.4	11.4
40°-50°	8422.2	18.1
50°-60°	11528.2	24.8
60°-70°	10866.1	23.4
70°-80°	4786.8	10.3
80°-90°	360.2	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°	46449.5	100.0
0°-180°	46449.5	100.0

Coefficient of Utilization

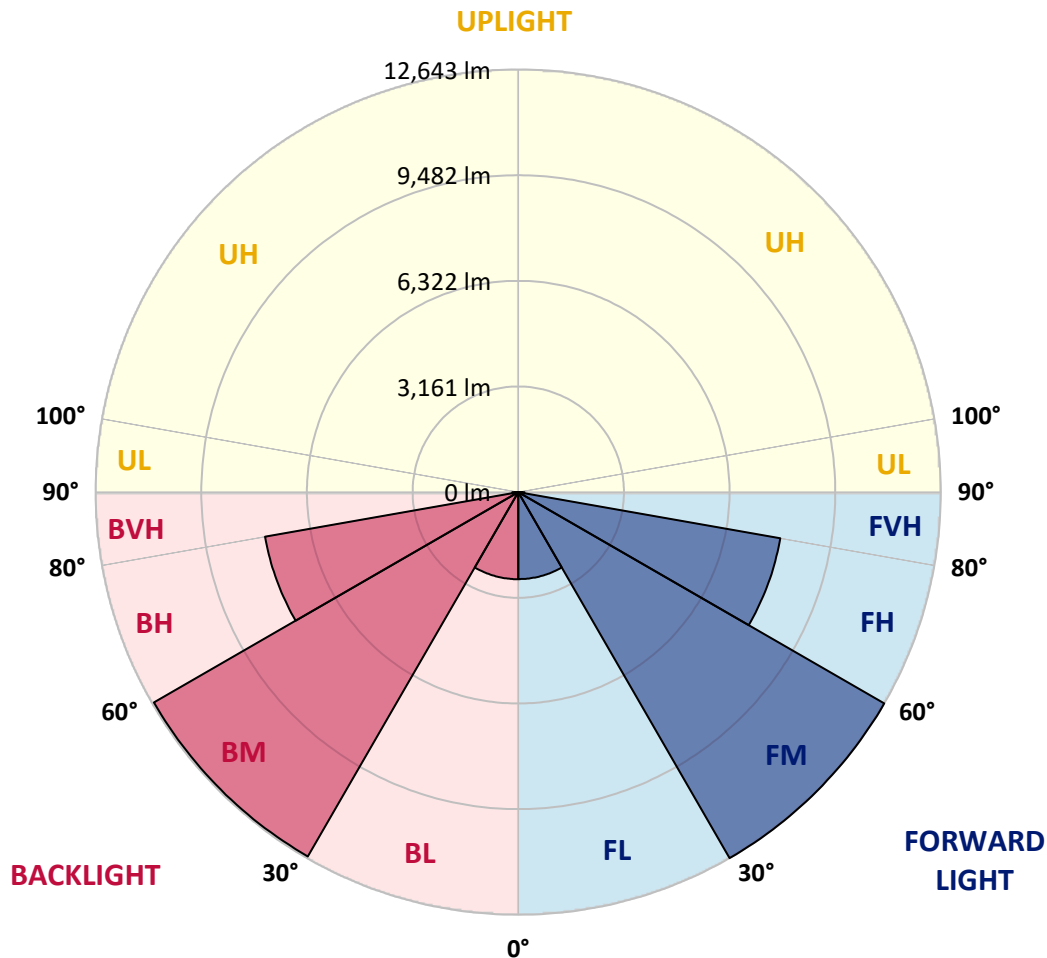


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2601.9	5.6			
FM (30°-60°)	12643.2	27.2			
FH (60°-80°)	7961.0	17.1			G4/12000
FVH (80°-90°)	184.0	0.4			G2/225
BL (0°-30°)	2604.7	5.6	B4/5000		
BM (30°-60°)	12586.6	27.1	B5		
BH (60°-80°)	7692.0	16.6	B5		G5
BVH (80°-90°)	176.2	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°	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4
2.5°	4726.3	4726.3	4721.3	4746.4	4771.4	4781.4	4801.4	4806.5	4836.5	4811.5	4861.5
5°	4711.3	4706.3	4746.4	4806.5	4806.5	4871.5	4911.6	4966.7	4981.7	5011.7	5021.7
7.5°	4816.5	4806.5	4786.4	4851.5	4906.6	5006.7	5061.8	5156.9	5192.0	5232.0	5277.1
10°	4881.6	4881.6	4861.5	4976.7	5026.8	5161.9	5282.1	5377.2	5512.4	5557.5	5562.5
12.5°	4891.6	4906.6	4966.7	5116.9	5257.1	5432.3	5522.4	5702.7	5837.8	5923.0	5953.0
15°	5041.8	5011.7	5076.8	5282.1	5487.4	5642.6	5802.8	5933.0	6128.2	6238.4	6308.5
17.5°	5177.0	5146.9	5267.1	5512.4	5722.7	5963.0	6103.2	6243.4	6383.6	6483.7	6488.7
20°	5392.2	5417.3	5522.4	5787.8	6063.1	6273.4	6433.6	6458.7	6528.8	6674.0	6648.9
22.5°	5657.6	5637.6	5857.9	6148.3	6448.7	6623.9	6714.0	6648.9	6613.9	6769.1	6804.1
25°	5923.0	5983.0	6183.3	6453.7	6814.2	7049.5	7074.5	6894.3	6764.1	6819.2	6804.1
27.5°	6328.5	6338.5	6548.8	6869.2	7234.7	7440.0	7425.0	7169.6	6919.3	6924.3	6934.3
30°	6849.2	6799.1	7029.4	7319.8	7680.3	7865.6	7890.6	7525.1	7189.7	7089.5	7114.6
32.5°	7349.9	7410.0	7610.2	7940.7	8206.0	8311.2	8256.1	7930.7	7495.1	7359.9	7374.9
35°	7990.7	7980.7	8256.1	8536.5	8736.7	8756.8	8711.7	8236.1	7825.5	7650.3	7580.2
37.5°	8676.7	8766.8	8947.0	9177.3	9387.6	9397.6	9152.3	8771.8	8266.1	7975.7	8060.8
40°	9442.7	9542.8	9673.0	10008.4	10163.6	10003.4	9753.1	9237.4	8711.7	8456.4	8496.4
42.5°	10118.6	10163.6	10429.0	10824.5	10899.6	10829.5	10459.0	9833.2	9222.4	8942.0	8962.0
45°	10739.4	10799.5	11145.0	11500.4	11675.7	11555.5	11124.9	10529.1	9818.2	9577.9	9482.7
47.5°	11310.2	11430.4	11765.8	12131.3	12401.7	12411.7	11881.0	11160.0	10409.0	10093.6	10088.5
50°	11695.7	11870.9	12201.4	12616.9	13012.5	13167.7	12637.0	11860.9	11054.8	10719.4	10684.3
52.5°	11906.0	12086.2	12416.7	13062.5	13503.1	13743.5	13493.1	12516.8	11810.9	11460.4	11405.3
55°	11650.6	11770.8	12311.5	13217.8	13898.7	14294.2	14129.0	13423.0	12561.9	12276.5	12326.6
57.5°	10564.2	10814.5	11480.4	12611.9	13888.7	14860.0	14844.9	14279.2	13428.0	13157.7	13167.7
60°	8696.7	8907.0	9728.1	11310.2	13327.9	15090.3	15621.0	15110.3	14399.3	14083.9	14073.9
62.5°	6138.2	6403.6	7354.9	9082.2	11675.7	14769.8	16512.2	16156.7	15350.6	15120.3	15205.4
65°	3434.6	3594.8	4476.0	6038.1	8896.9	13007.5	16672.4	17243.2	16316.9	15966.4	15981.5
67.5°	1837.5	1897.5	2308.1	3169.3	5442.3	10028.5	15055.2	17869.0	17363.3	16757.5	16662.4
70°	1261.7	1281.7	1386.9	1622.2	2573.5	5998.1	11355.2	16752.5	18149.4	17323.3	17483.5
72.5°	1066.4	1056.4	1081.5	1106.5	1346.8	2683.6	6663.9	12892.3	17133.0	16822.6	16762.5
75°	926.2	921.2	931.3	906.2	936.3	1181.6	2949.0	8035.8	12541.8	13998.8	14224.1
77.5°	766.0	771.0	776.0	751.0	741.0	781.0	1186.6	3529.7	6173.3	6814.2	7349.9
80°	580.8	590.8	630.8	605.8	565.8	570.8	700.9	1181.6	1772.4	1607.2	1657.2
82.5°	395.5	400.5	485.7	455.6	425.6	385.5	450.6	610.8	690.9	525.7	460.6
85°	280.4	275.4	315.4	290.4	270.4	195.3	270.4	345.5	415.6	260.3	235.3
87.5°	65.1	65.1	130.2	105.1	100.1	80.1	105.1	135.2	180.2	115.2	105.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4	4756.4
2.5°	4846.5	4801.4	4801.4	4791.4	4751.4	4741.4	4706.3	4716.3	4691.3	4666.3
5°	5016.7	4956.7	4956.7	4871.5	4791.4	4781.4	4741.4	4741.4	4701.3	4711.3
7.5°	5252.1	5197.0	5106.9	5031.8	4921.6	4876.5	4801.4	4791.4	4781.4	4761.4
10°	5532.4	5462.3	5372.2	5217.0	5126.9	5041.8	4966.7	4861.5	4836.5	4841.5
12.5°	5912.9	5802.8	5607.5	5472.3	5357.2	5247.0	5136.9	4981.7	4946.6	4961.7
15°	6183.3	6043.1	5847.9	5797.8	5642.6	5507.4	5327.2	5151.9	5091.8	5076.8
17.5°	6403.6	6288.4	6173.3	6098.2	5973.0	5807.8	5557.5	5357.2	5222.0	5207.0
20°	6583.8	6433.6	6408.6	6453.7	6298.5	6188.3	5882.9	5637.6	5457.3	5382.2
22.5°	6694.0	6598.9	6669.0	6709.0	6699.0	6513.7	6198.3	5912.9	5687.6	5617.5
25°	6814.2	6704.0	6954.3	7089.5	7124.6	6819.2	6573.8	6198.3	5978.0	5933.0
27.5°	6874.2	6914.3	7204.7	7490.1	7465.0	7229.7	6899.3	6563.8	6388.6	6308.5
30°	7049.5	7114.6	7555.1	7875.6	7880.6	7650.3	7399.9	7019.4	6824.2	6789.1
32.5°	7364.9	7445.0	7915.6	8256.1	8316.2	8140.9	7890.6	7655.3	7455.0	7374.9
35°	7605.2	7810.5	8341.2	8651.6	8811.8	8706.7	8566.5	8321.2	8110.9	8040.8
37.5°	7950.7	8236.1	8746.7	9167.3	9347.6	9337.5	9232.4	8967.0	8791.8	8731.7
40°	8446.3	8731.7	9197.4	9753.1	10088.5	10073.5	10013.4	9808.2	9547.8	9517.8
42.5°	8972.0	9207.4	9813.2	10449.0	10929.7	10879.6	10719.4	10479.1	10298.8	10258.8
45°	9482.7	9848.2	10409.0	11225.1	11585.6	11710.7	11520.5	11109.9	10904.6	10879.6
47.5°	10123.6	10414.0	11114.9	11845.9	12381.6	12401.7	12076.2	11695.7	11320.2	11400.3
50°	10694.4	11079.9	11790.8	12591.9	13232.8	13002.5	12586.9	12111.3	11840.9	11735.8
52.5°	11305.2	11775.8	12601.9	13418.0	13773.5	13543.2	12867.3	12336.6	11926.0	11881.0
55°	12196.4	12441.7	13523.2	14149.0	14264.2	13778.5	12782.2	12031.2	11500.4	11370.3
57.5°	13102.6	13388.0	14334.2	14875.0	14754.8	13648.3	12231.4	11069.9	10373.9	10188.7
60°	14018.8	14369.3	15165.4	15661.0	15040.2	12752.1	10674.3	9177.3	8366.2	8201.0
62.5°	15040.2	15495.8	16206.8	16382.0	14194.1	10979.7	8471.4	6623.9	5802.8	5527.4
65°	15946.4	16412.0	17288.2	16231.8	12396.6	8191.0	5477.4	3785.1	3179.3	2959.0
67.5°	16692.4	17218.1	17648.7	14364.3	9077.2	4796.4	2853.8	1992.7	1767.4	1687.3
70°	17283.2	18159.4	16146.7	10559.2	5187.0	2338.1	1542.1	1311.8	1281.7	1261.7
72.5°	16767.5	16652.4	12056.2	6093.2	2273.1	1286.7	1116.5	1081.5	1076.4	1081.5
75°	13713.4	12231.4	7209.7	2648.6	1141.5	931.3	926.2	911.2	936.3	936.3
77.5°	6653.9	5817.8	3014.0	1136.5	751.0	731.0	756.0	756.0	756.0	756.0
80°	1542.1	1707.3	1076.4	690.9	545.7	545.7	600.8	605.8	580.8	570.8
82.5°	525.7	700.9	590.8	435.6	360.5	405.5	455.6	465.6	385.5	390.5
85°	260.3	410.6	320.4	250.3	185.2	250.3	295.4	310.4	265.4	255.3
87.5°	120.2	180.2	120.2	85.1	65.1	90.1	85.1	70.1	40.1	40.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)