

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: P481264

Luminaire Tested: **IFLD-L-SA7C-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481264
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

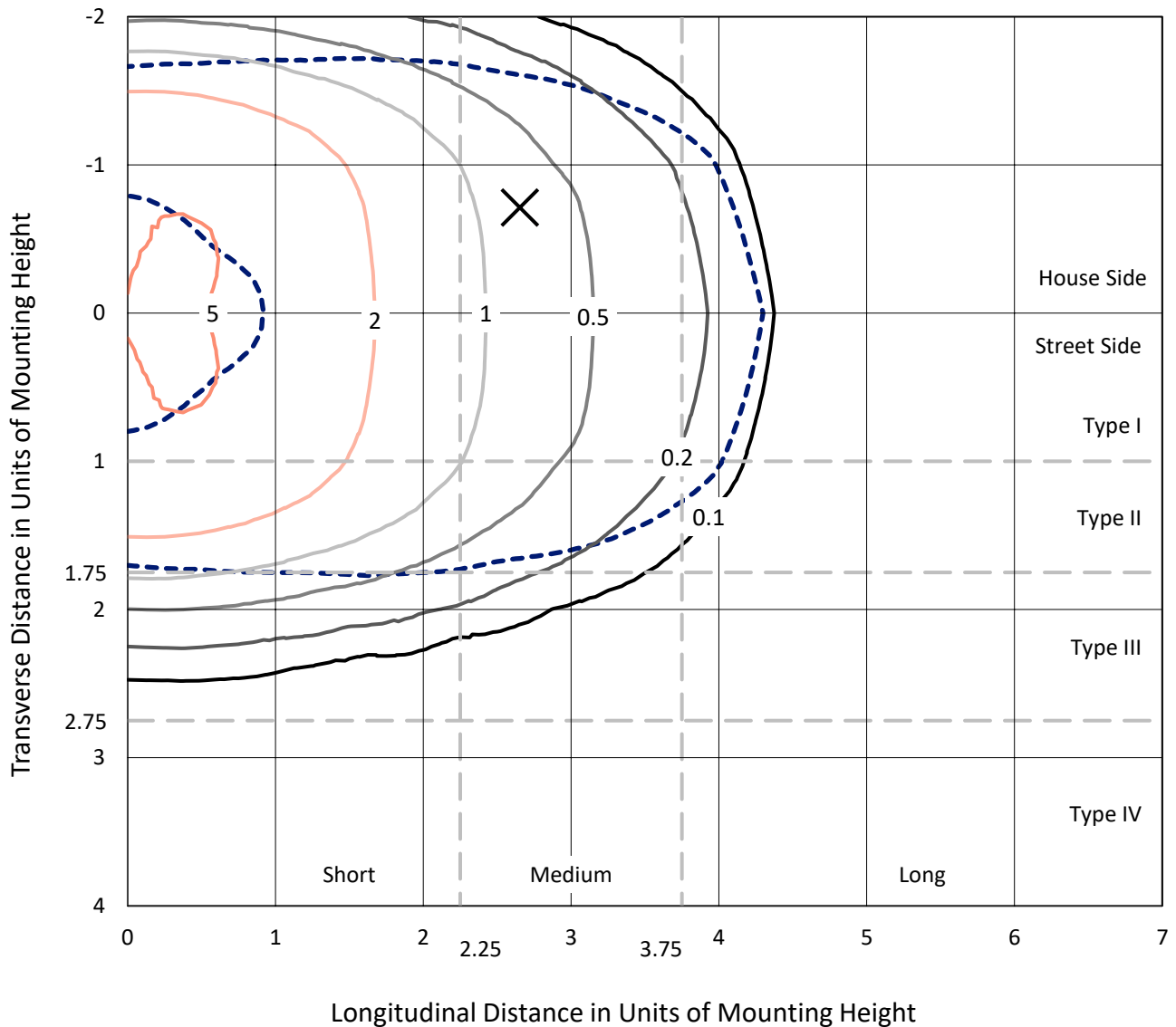
Lumens per Lamp: N/A
Luminaire Lumens: 45036.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 369
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

REPORT NUMBER: P481264
 CATALOG NUMBER: IFLD-L-SA7C-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

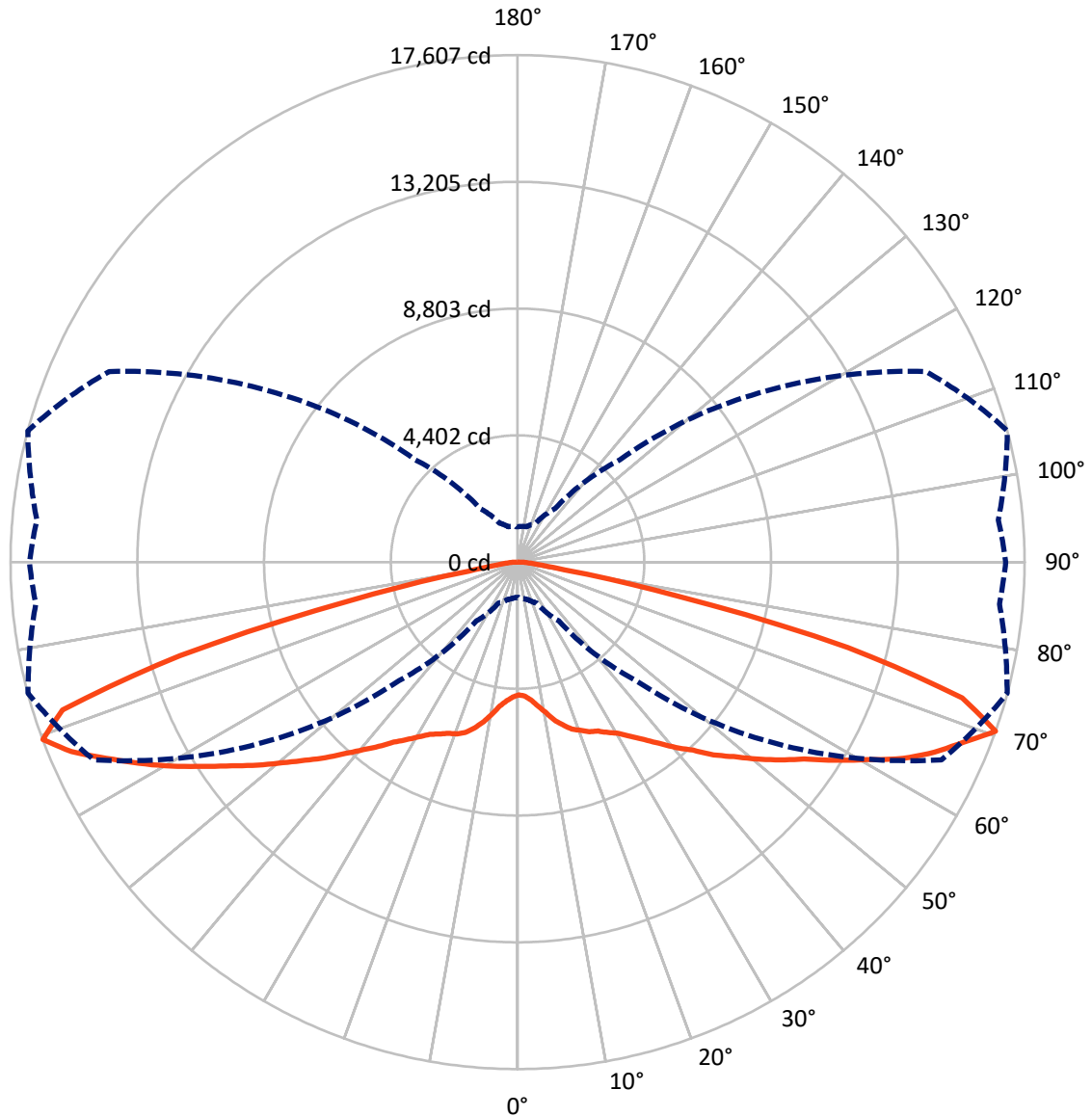
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P481264
CATALOG NUMBER: IFLD-L-SA7C-735-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481264

CATALOG NUMBER: IFLD-L-SA7C-735-U-RW

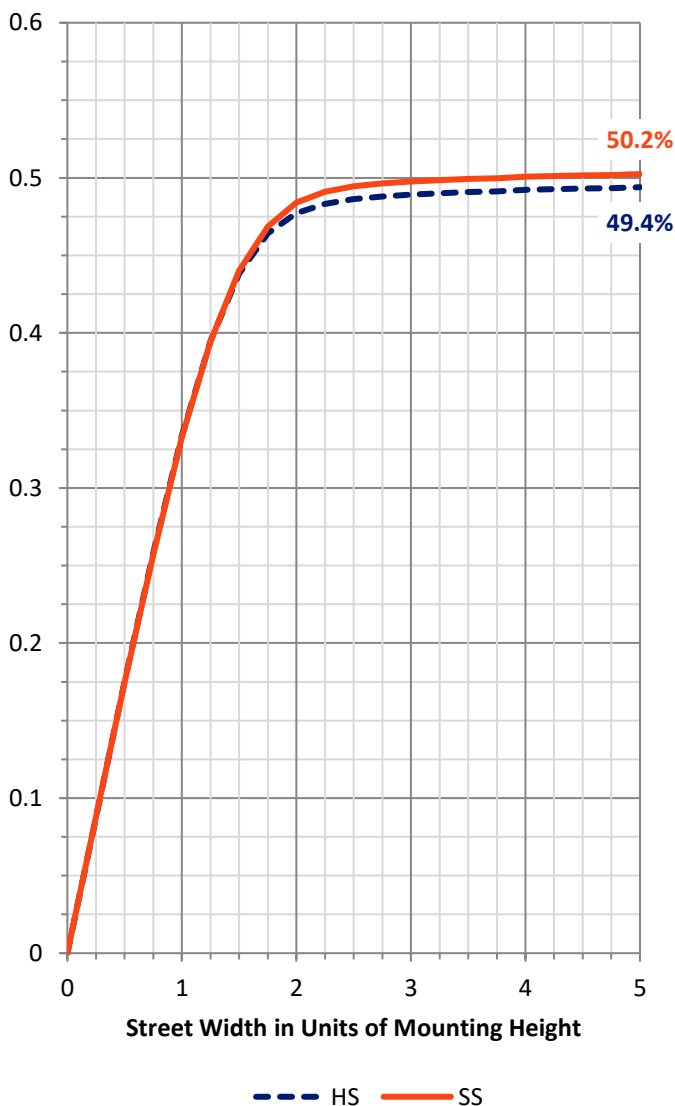
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22358.0	0.0	22358.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	22678.4	0.0	22678.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	45036.4	0.0	45036.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.0	1.0
10°-20°	1562.9	3.5
20°-30°	3026.3	6.7
30°-40°	5118.8	11.4
40°-50°	8166.0	18.1
50°-60°	11177.5	24.8
60°-70°	10535.5	23.4
70°-80°	4641.2	10.3
80°-90°	349.2	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°	45036.4	100.0
0°-180°	45036.4	100.0

Coefficient of Utilization

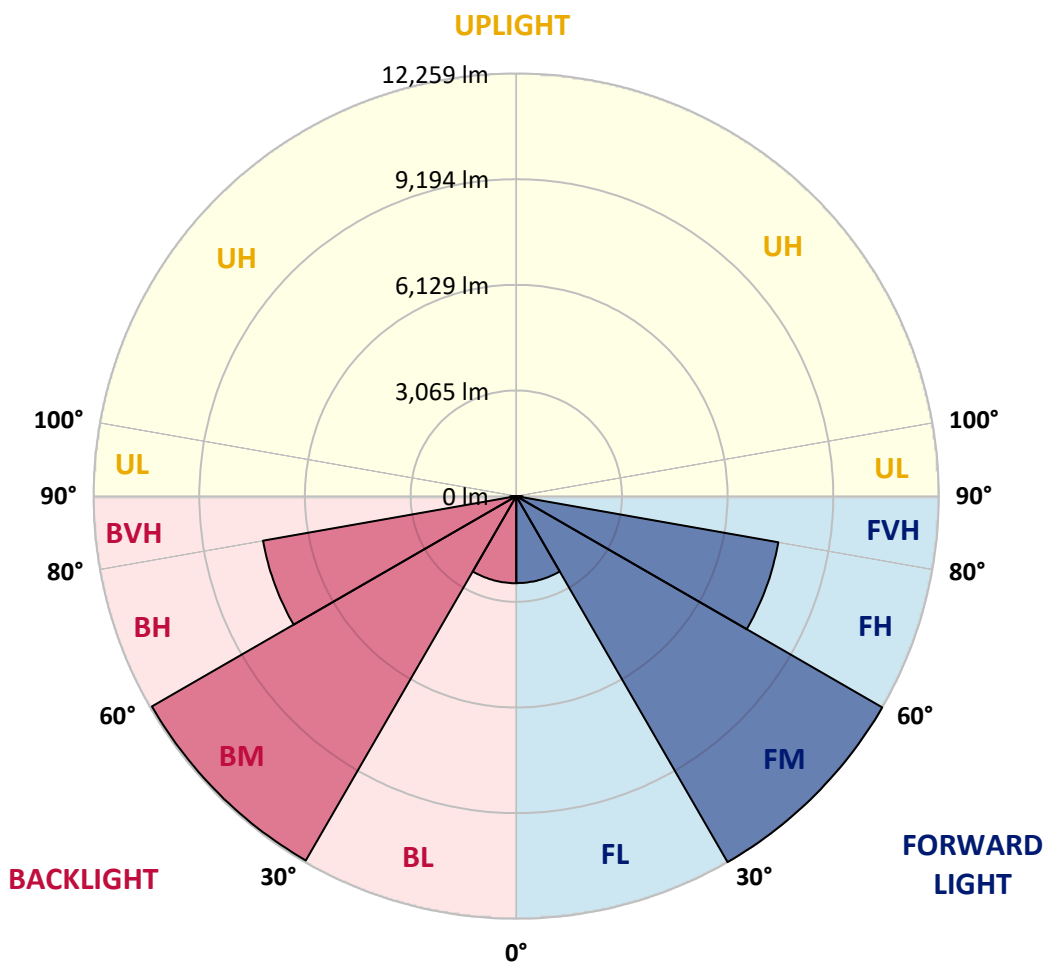


REPORT NUMBER: P481264
 CATALOG NUMBER: IFLD-L-SA7C-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2522.8	5.6			
FM (30°-60°)	12258.5	27.2			
FH (60°-80°)	7718.8	17.1			G4/12000
FVH (80°-90°)	178.4	0.4			G2/225
BL (0°-30°)	2525.5	5.6	B4/5000		
BM (30°-60°)	12203.7	27.1	B5		
BH (60°-80°)	7458.0	16.6	B5		G5
BVH (80°-90°)	170.8	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





REPORT NUMBER: P481264

CATALOG NUMBER: IFLD-L-SA7C-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7
2.5°	4582.6	4582.6	4577.7	4602.0	4626.2	4636.0	4655.4	4660.2	4689.4	4665.1	4713.6
5°	4568.0	4563.1	4602.0	4660.2	4660.2	4723.3	4762.2	4815.6	4830.1	4859.3	4869.0
7.5°	4669.9	4660.2	4640.8	4703.9	4757.3	4854.4	4907.8	5000.0	5034.0	5072.9	5116.5
10°	4733.0	4733.0	4713.6	4825.3	4873.8	5004.9	5121.4	5213.6	5344.7	5388.4	5393.2
12.5°	4742.8	4757.3	4815.6	4961.2	5097.1	5267.0	5354.4	5529.2	5660.2	5742.8	5771.9
15°	4888.4	4859.3	4922.4	5121.4	5320.4	5470.9	5626.3	5752.5	5941.8	6048.6	6116.6
17.5°	5019.5	4990.3	5106.8	5344.7	5548.6	5781.6	5917.5	6053.4	6189.4	6286.5	6291.3
20°	5228.2	5252.5	5354.4	5611.7	5878.7	6082.6	6237.9	6262.2	6330.1	6470.9	6446.7
22.5°	5485.5	5466.1	5679.7	5961.2	6252.5	6422.4	6509.8	6446.7	6412.7	6563.2	6597.1
25°	5742.8	5801.0	5995.2	6257.3	6606.8	6835.0	6859.3	6684.5	6558.3	6611.7	6597.1
27.5°	6136.0	6145.7	6349.6	6660.2	7014.6	7213.6	7199.1	6951.5	6708.8	6713.6	6723.4
30°	6640.8	6592.3	6815.6	7097.1	7446.7	7626.3	7650.5	7296.2	6970.9	6873.8	6898.1
32.5°	7126.3	7184.5	7378.7	7699.1	7956.4	8058.3	8004.9	7689.4	7267.0	7136.0	7150.5
35°	7747.6	7737.9	8004.9	8276.8	8470.9	8490.4	8446.7	7985.5	7587.4	7417.5	7349.6
37.5°	8412.7	8500.1	8674.8	8898.1	9102.0	9111.7	8873.9	8504.9	8014.6	7733.1	7815.6
40°	9155.4	9252.5	9378.7	9704.0	9854.4	9699.1	9456.4	8956.4	8446.7	8199.1	8237.9
42.5°	9810.8	9854.4	10111.7	10495.2	10568.0	10500.1	10140.9	9534.1	8941.8	8670.0	8689.4
45°	10412.7	10471.0	10805.9	11150.6	11320.5	11204.0	10786.5	10208.8	9519.5	9286.5	9194.2
47.5°	10966.1	11082.6	11407.9	11762.2	12024.4	12034.1	11519.5	10820.5	10092.3	9786.5	9781.6
50°	11339.9	11509.8	11830.2	12233.1	12616.6	12767.1	12252.5	11500.1	10718.5	10393.3	10359.3
52.5°	11543.8	11718.5	12038.9	12665.1	13092.3	13325.3	13082.6	12136.0	11451.5	11111.7	11058.3
55°	11296.2	11412.7	11937.0	12815.6	13475.8	13859.3	13699.1	13014.7	12179.7	11903.0	11951.5
57.5°	10242.8	10485.5	11131.2	12228.2	13466.1	14407.9	14393.3	13844.8	13019.5	12757.4	12767.1
60°	8432.1	8636.0	9432.1	10966.1	12922.4	14631.2	15145.7	14650.6	13961.3	13655.4	13645.7
62.5°	5951.5	6208.8	7131.1	8805.9	11320.5	14320.5	16009.8	15665.2	14883.6	14660.3	14742.8
65°	3330.1	3485.5	4339.8	5854.4	8626.3	12611.7	16165.2	16718.6	15820.5	15480.7	15495.3
67.5°	1781.6	1839.8	2237.9	3072.8	5276.7	9723.4	14597.2	17325.4	16835.1	16247.7	16155.5
70°	1223.3	1242.7	1344.7	1572.8	2495.2	5815.6	11009.8	16242.8	17597.2	16796.2	16951.6
72.5°	1034.0	1024.3	1048.6	1072.8	1305.8	2602.0	6461.2	12500.1	16611.8	16310.8	16252.5
75°	898.1	893.2	902.9	878.6	907.8	1145.6	2859.2	7791.3	12160.3	13572.9	13791.4
77.5°	742.7	747.6	752.4	728.2	718.5	757.3	1150.5	3422.4	5985.5	6606.8	7126.3
80°	563.1	572.8	611.7	587.4	548.5	553.4	679.6	1145.6	1718.5	1558.3	1606.8
82.5°	383.5	388.4	470.9	441.8	412.6	373.8	436.9	592.2	669.9	509.7	446.6
85°	271.8	267.0	305.8	281.6	262.1	189.3	262.1	335.0	402.9	252.4	228.2
87.5°	63.1	63.1	126.2	101.9	97.1	77.7	101.9	131.1	174.8	111.7	101.9
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: P481264
 CATALOG NUMBER: IFLD-L-SA7C-735-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7	4611.7
2.5°	4699.1	4655.4	4655.4	4645.7	4606.8	4597.1	4563.1	4572.9	4548.6	4524.3
5°	4864.1	4805.9	4805.9	4723.3	4645.7	4636.0	4597.1	4597.1	4558.3	4568.0
7.5°	5092.3	5038.9	4951.5	4878.7	4771.9	4728.2	4655.4	4645.7	4636.0	4616.5
10°	5364.1	5296.2	5208.8	5058.3	4970.9	4888.4	4815.6	4713.6	4689.4	4694.2
12.5°	5733.1	5626.3	5436.9	5305.9	5194.2	5087.4	4980.6	4830.1	4796.2	4810.7
15°	5995.2	5859.3	5669.9	5621.4	5470.9	5339.8	5165.1	4995.2	4936.9	4922.4
17.5°	6208.8	6097.1	5985.5	5912.7	5791.3	5631.1	5388.4	5194.2	5063.1	5048.6
20°	6383.5	6237.9	6213.6	6257.3	6106.8	6000.0	5703.9	5466.1	5291.3	5218.5
22.5°	6490.3	6398.1	6466.1	6504.9	6495.2	6315.6	6009.8	5733.1	5514.6	5446.6
25°	6606.8	6500.0	6742.8	6873.8	6907.8	6611.7	6373.8	6009.8	5796.2	5752.5
27.5°	6665.1	6703.9	6985.5	7262.2	7237.9	7009.8	6689.4	6364.1	6194.2	6116.6
30°	6835.0	6898.1	7325.3	7636.0	7640.8	7417.5	7174.8	6805.9	6616.6	6582.6
32.5°	7140.8	7218.5	7674.8	8004.9	8063.2	7893.3	7650.5	7422.4	7228.2	7150.5
35°	7373.8	7572.9	8087.4	8388.4	8543.8	8441.8	8305.9	8068.0	7864.1	7796.2
37.5°	7708.8	7985.5	8480.6	8888.4	9063.2	9053.5	8951.5	8694.2	8524.3	8466.1
40°	8189.4	8466.1	8917.5	9456.4	9781.6	9767.1	9708.8	9509.8	9257.4	9228.2
42.5°	8699.1	8927.3	9514.6	10131.1	10597.2	10548.6	10393.3	10160.3	9985.5	9946.7
45°	9194.2	9548.6	10092.3	10883.6	11233.1	11354.5	11170.0	10771.9	10572.9	10548.6
47.5°	9815.6	10097.2	10776.8	11485.5	12004.9	12024.4	11708.8	11339.9	10975.8	11053.5
50°	10369.0	10742.8	11432.1	12208.8	12830.2	12606.9	12204.0	11742.8	11480.7	11378.7
52.5°	10961.2	11417.6	12218.5	13009.8	13354.5	13131.2	12475.8	11961.3	11563.2	11519.5
55°	11825.3	12063.2	13111.7	13718.6	13830.2	13359.3	12393.3	11665.1	11150.6	11024.4
57.5°	12704.0	12980.7	13898.2	14422.4	14305.9	13233.1	11859.3	10733.1	10058.3	9878.7
60°	13592.3	13932.1	14704.0	15184.6	14582.6	12364.2	10349.6	8898.1	8111.7	7951.5
62.5°	14582.6	15024.4	15713.7	15883.6	13762.2	10645.7	8213.7	6422.4	5626.3	5359.3
65°	15461.3	15912.7	16762.3	15738.0	12019.5	7941.8	5310.7	3669.9	3082.5	2869.0
67.5°	16184.6	16694.3	17111.8	13927.3	8801.0	4650.5	2767.0	1932.1	1713.6	1635.9
70°	16757.4	17606.9	15655.5	10237.9	5029.2	2267.0	1495.2	1271.9	1242.7	1223.3
72.5°	16257.4	16145.8	11689.4	5907.8	2203.9	1247.6	1082.5	1048.6	1043.7	1048.6
75°	13296.2	11859.3	6990.3	2568.0	1106.8	902.9	898.1	883.5	907.8	907.8
77.5°	6451.5	5640.8	2922.4	1102.0	728.2	708.7	733.0	733.0	733.0	733.0
80°	1495.2	1655.4	1043.7	669.9	529.1	529.1	582.5	587.4	563.1	553.4
82.5°	509.7	679.6	572.8	422.3	349.5	393.2	441.8	451.5	373.8	378.6
85°	252.4	398.1	310.7	242.7	179.6	242.7	286.4	301.0	257.3	247.6
87.5°	116.5	174.8	116.5	82.5	63.1	87.4	82.5	68.0	38.8	38.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)