

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: P479315

Luminaire Tested: **IFLD-L-SA7D-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479315
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

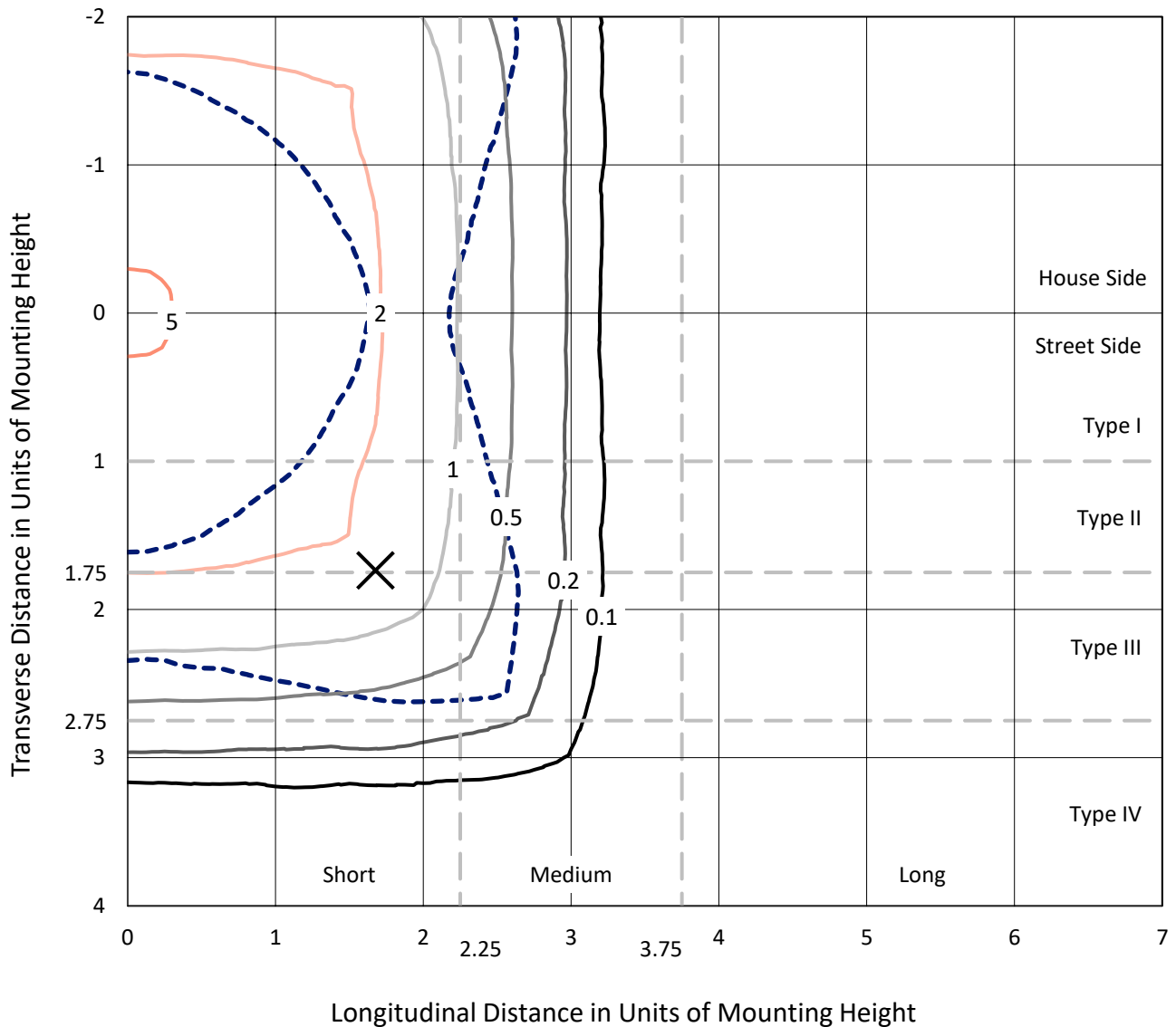
Lumens per Lamp: N/A
Luminaire Lumens: 48563.5 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 422.6
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: P479315
 CATALOG NUMBER: IFLD-L-SA7D-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

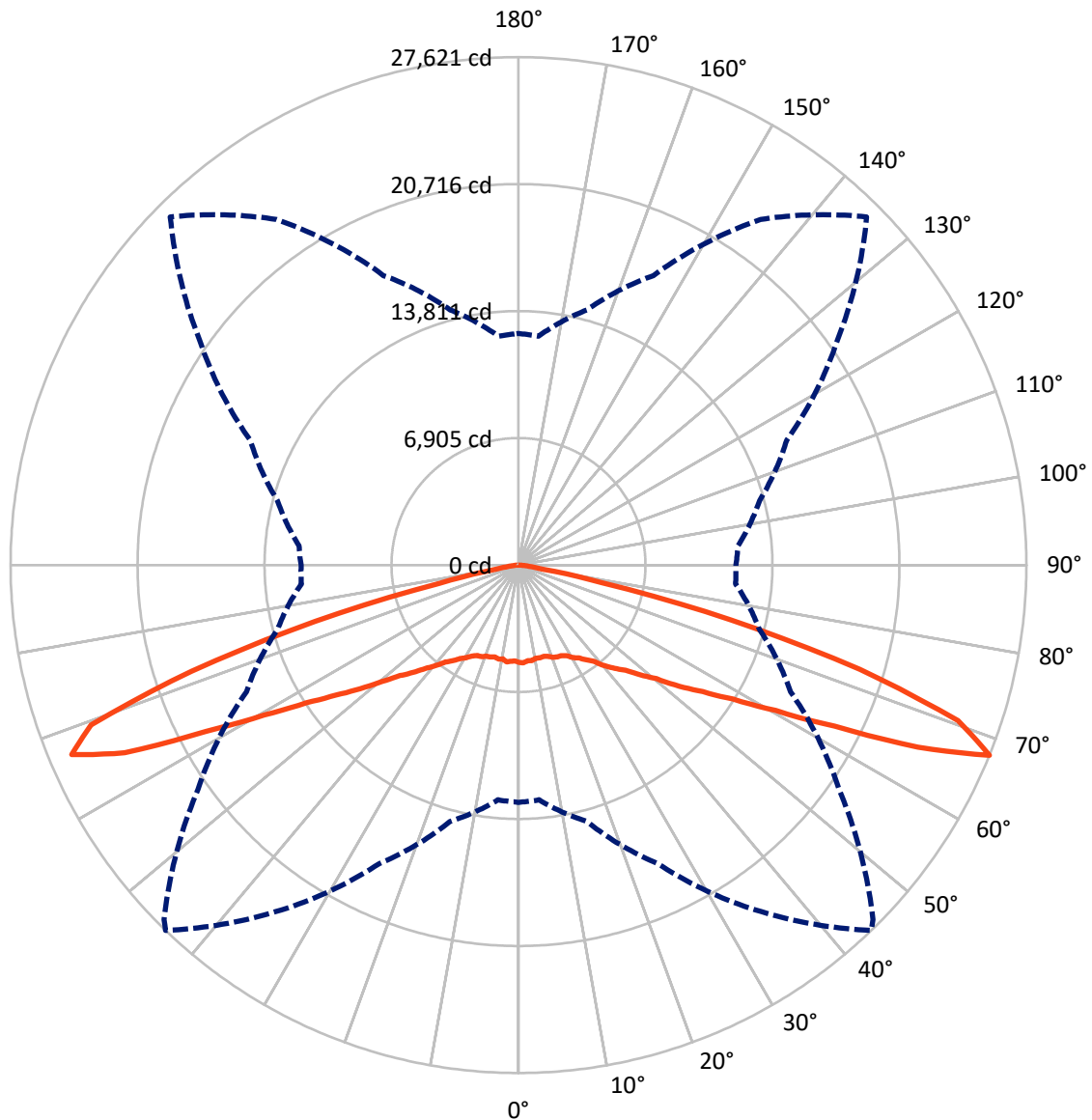
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

REPORT NUMBER: P479315
CATALOG NUMBER: IFLD-L-SA7D-735-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479315
 CATALOG NUMBER: IFLD-L-SA7D-735-U-5MQ

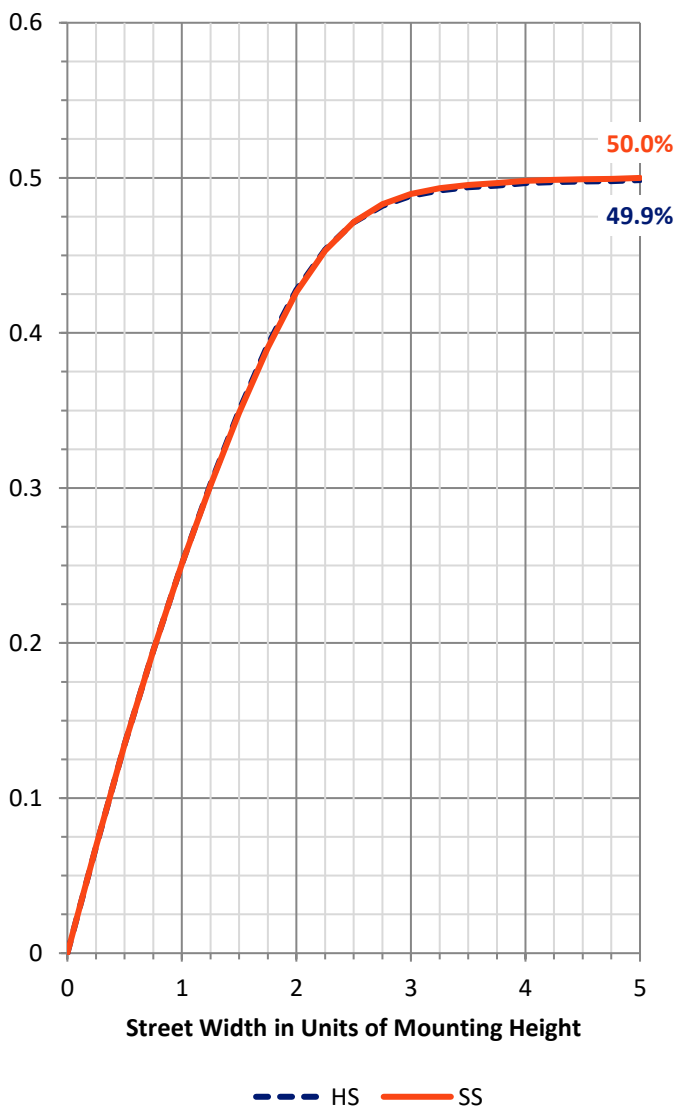
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24219.6	0.0	24219.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	24343.9	0.0	24343.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	48563.5	0.0	48563.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.0	1.0
10°-20°	1466.5	3.0
20°-30°	2493.9	5.1
30°-40°	3954.2	8.1
40°-50°	6447.7	13.3
50°-60°	11011.8	22.7
60°-70°	16748.8	34.5
70°-80°	5645.4	11.6
80°-90°	293.1	0.6
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°	48563.5	100.0
0°-180°	48563.5	100.0

Coefficient of Utilization



REPORT NUMBER: P479315

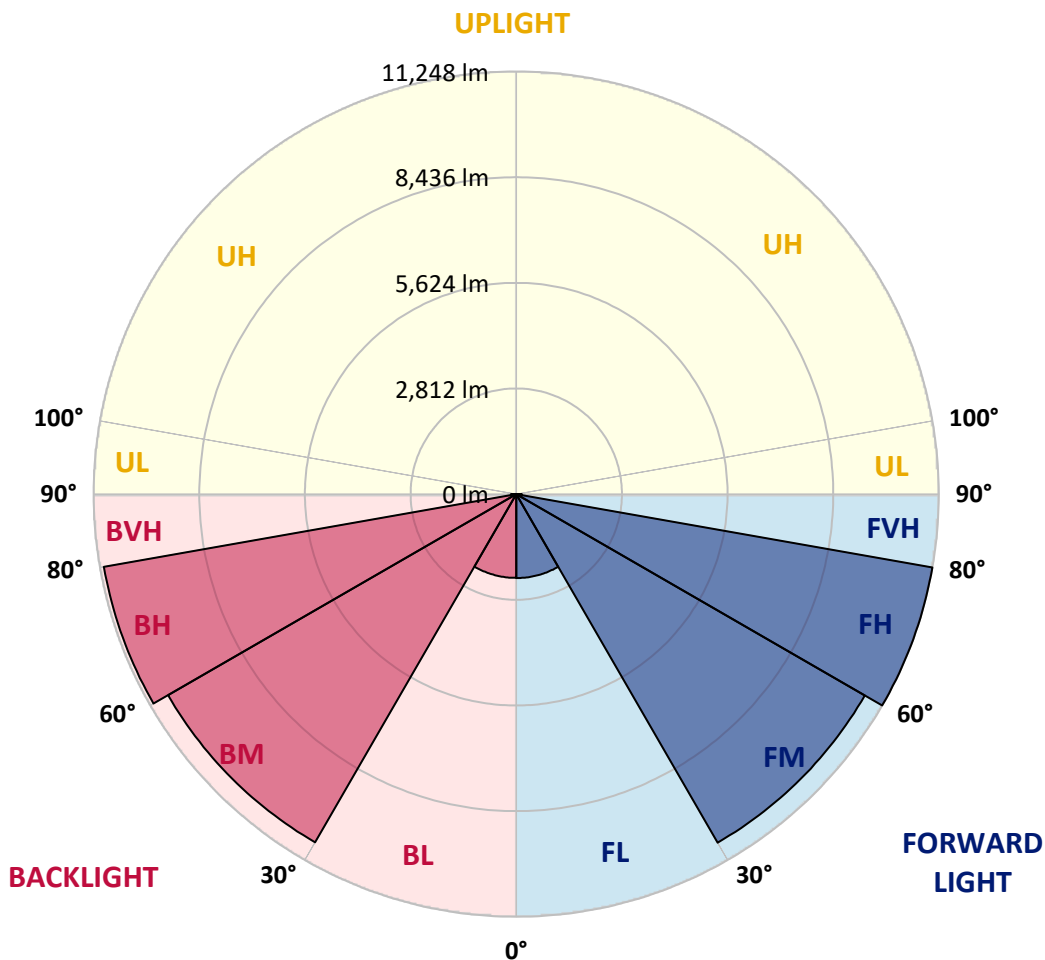
CATALOG NUMBER: IFLD-L-SA7D-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.5	4.6			
FM (30°-60°)	10712.6	22.1			
FH (60°-80°)	11247.8	23.2			G4/12000
FVH (80°-90°)	149.9	0.3			G2/225
BL (0°-30°)	2228.9	4.6	B3/2500		
BM (30°-60°)	10701.1	22.0	B5		
BH (60°-80°)	11146.4	23.0	B5		G4/12000
BVH (80°-90°)	143.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P479315
 CATALOG NUMBER: IFLD-L-SA7D-735-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7
2.5°	5182.8	5243.7	5288.1	5282.5	5299.2	5315.8	5293.6	5326.9	5304.7	5343.5	5365.7
5°	5282.5	5265.9	5271.5	5238.2	5315.8	5227.1	5227.1	5271.5	5326.9	5260.4	5299.2
7.5°	5221.6	5210.5	5182.8	5232.7	5249.3	5249.3	5293.6	5210.5	5304.7	5326.9	5332.4
10°	5155.1	5094.1	5177.2	5227.1	5238.2	5149.5	5188.3	5210.5	5182.8	5210.5	5227.1
12.5°	5099.6	5132.9	5132.9	5132.9	5116.3	5177.2	5216.0	5210.5	5155.1	5204.9	5116.3
15°	5094.1	5077.5	5127.3	5171.7	5144.0	5155.1	5171.7	5221.6	5116.3	5138.4	5138.4
17.5°	5088.5	5110.7	5127.3	5121.8	5216.0	5216.0	5199.4	5166.1	5249.3	5204.9	5144.0
20°	5110.7	5094.1	5138.4	5155.1	5221.6	5354.6	5304.7	5277.0	5232.7	5177.2	5177.2
22.5°	5138.4	5127.3	5188.3	5260.4	5387.9	5421.1	5415.6	5382.3	5304.7	5238.2	5227.1
25°	5238.2	5138.4	5204.9	5343.5	5387.9	5454.4	5498.7	5454.4	5349.1	5365.7	5265.9
27.5°	5387.9	5371.2	5459.9	5554.2	5515.4	5576.3	5537.5	5570.8	5576.3	5493.2	5393.4
30°	5565.2	5515.4	5570.8	5753.7	5770.3	5836.9	5770.3	5681.6	5709.4	5637.3	5587.4
32.5°	5820.2	5803.6	5908.9	6030.9	6053.0	6019.8	5986.5	6036.4	5920.0	5864.6	5775.9
35°	5986.5	6058.6	6186.1	6280.3	6352.4	6319.1	6335.7	6285.8	6313.6	6197.2	6158.4
37.5°	6479.9	6452.1	6479.9	6640.6	6657.2	6640.6	6657.2	6712.7	6673.9	6574.1	6474.3
40°	6945.5	6901.1	6967.6	7150.6	7139.5	7194.9	7084.0	7145.0	7145.0	6956.6	6917.8
42.5°	7294.7	7444.3	7521.9	7671.6	7727.0	7677.2	7655.0	7666.1	7788.0	7566.3	7483.1
45°	8015.3	8009.7	8242.5	8325.7	8170.5	8159.4	8115.1	8248.1	8331.2	8203.7	8170.5
47.5°	8796.9	8835.7	8968.7	9001.9	9096.2	8924.3	8924.3	8941.0	9234.8	8935.4	8780.2
50°	9500.8	9550.7	9816.8	10077.3	9899.9	9717.0	9789.1	9877.8	10038.5	9755.8	9622.8
52.5°	10354.5	10626.1	10803.4	10942.0	11069.5	10942.0	10775.7	10875.5	11191.5	10814.5	10648.2
55°	11585.0	11801.2	11967.5	12222.5	12327.8	12156.0	12139.3	12128.2	12305.6	11906.5	11679.3
57.5°	12959.7	12871.0	13137.1	13530.6	13913.1	13746.8	13696.9	13708.0	13752.4	13187.0	13015.1
60°	14667.0	14766.7	15082.7	15426.4	15831.0	16063.8	15736.8	15548.3	15587.1	14816.6	14550.6
62.5°	15642.6	15864.3	16579.3	17760.0	18574.8	19301.0	19350.9	18125.8	17305.5	15808.8	14678.1
65°	15171.4	15138.1	16485.1	18669.1	21756.6	23868.5	23552.5	20581.4	17715.7	15337.7	13818.9
67.5°	12904.3	12815.6	14445.2	17909.7	23009.3	27621.1	27260.8	21274.3	16329.9	13569.4	11851.1
70°	8314.6	8292.4	10060.7	13652.6	20542.6	25359.6	25492.6	19323.2	13292.3	9938.7	8237.0
72.5°	3021.0	3203.9	4229.4	7339.0	13951.9	19400.8	19483.9	14306.7	7643.9	4595.2	3386.8
75°	1114.2	1147.4	1335.9	2383.5	6357.9	11912.1	12222.5	6939.9	2716.1	1496.6	1219.5
77.5°	643.0	648.5	715.1	886.9	1884.6	4650.6	4839.1	2106.4	1053.2	798.2	737.2
80°	437.9	432.4	504.4	576.5	753.9	1319.3	1402.4	881.3	665.2	554.3	465.6
82.5°	255.0	271.6	371.4	410.2	460.1	582.0	593.1	548.8	498.9	410.2	304.9
85°	155.2	127.5	205.1	227.3	266.1	260.5	260.5	299.3	321.5	288.2	171.8
87.5°	38.8	38.8	49.9	55.4	72.1	55.4	61.0	116.4	155.2	144.1	88.7
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: P479315
 CATALOG NUMBER: IFLD-L-SA7D-735-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7	5304.7
2.5°	5315.8	5299.2	5310.3	5371.2	5332.4	5216.0	5243.7	5304.7	5254.8	5227.1	5221.6
5°	5293.6	5326.9	5288.1	5299.2	5338.0	5243.7	5260.4	5338.0	5304.7	5315.8	5254.8
7.5°	5299.2	5315.8	5282.5	5232.7	5232.7	5310.3	5265.9	5277.0	5227.1	5310.3	5199.4
10°	5265.9	5221.6	5182.8	5210.5	5199.4	5177.2	5160.6	5193.9	5144.0	5216.0	5138.4
12.5°	5166.1	5177.2	5166.1	5155.1	5177.2	5232.7	5144.0	5155.1	5077.5	5088.5	5127.3
15°	5127.3	5160.6	5149.5	5210.5	5238.2	5155.1	5221.6	5155.1	5094.1	5060.8	5121.8
17.5°	5144.0	5193.9	5177.2	5221.6	5171.7	5232.7	5243.7	5216.0	5144.0	5116.3	5144.0
20°	5160.6	5144.0	5166.1	5243.7	5315.8	5254.8	5254.8	5238.2	5171.7	5132.9	5132.9
22.5°	5199.4	5171.7	5204.9	5265.9	5288.1	5382.3	5299.2	5260.4	5149.5	5049.7	5144.0
25°	5277.0	5293.6	5315.8	5293.6	5415.6	5404.5	5393.4	5365.7	5193.9	5199.4	5182.8
27.5°	5426.7	5332.4	5360.2	5493.2	5509.8	5554.2	5498.7	5548.6	5365.7	5371.2	5260.4
30°	5609.6	5509.8	5598.5	5714.9	5709.4	5792.5	5764.8	5775.9	5648.4	5576.3	5426.7
32.5°	5809.1	5798.1	5853.5	5925.5	5953.3	5997.6	5992.1	5992.1	5914.5	5726.0	5753.7
35°	6030.9	6108.5	6175.0	6252.6	6263.7	6319.1	6241.5	6252.6	6175.0	6036.4	6080.8
37.5°	6468.8	6463.2	6535.3	6629.5	6640.6	6596.3	6657.2	6629.5	6524.2	6430.0	6357.9
40°	6978.7	6867.9	6934.4	7156.1	7172.7	7095.1	7089.6	7084.0	7006.4	6801.4	6757.0
42.5°	7422.2	7566.3	7555.2	7627.3	7577.4	7538.6	7677.2	7599.6	7538.6	7322.4	7283.6
45°	7993.1	8037.5	8181.6	8414.4	8176.0	8176.0	8270.3	8209.3	8176.0	8015.3	7865.6
47.5°	8702.6	8741.4	9029.7	9046.3	8891.1	8785.8	9079.6	9090.6	8952.1	8830.1	8647.2
50°	9534.1	9550.7	9811.2	10077.3	9905.5	9705.9	10005.2	10121.7	9811.2	9644.9	9417.7
52.5°	10448.7	10398.8	10615.0	11113.9	10947.6	10886.6	11208.1	11235.8	10814.5	10554.0	10615.0
55°	11501.9	11435.4	12022.9	12361.1	12255.7	12144.9	12289.0	12355.5	12017.4	11590.6	11740.2
57.5°	12865.5	12898.7	13192.5	13525.1	13696.9	13724.6	13791.2	13724.6	13381.0	12948.6	12810.0
60°	14229.1	14328.8	14899.8	15526.1	15581.6	16069.4	15980.7	15648.1	15160.3	14545.0	14572.7
62.5°	14733.5	14650.3	15570.5	17100.4	18403.0	19295.4	18901.9	17721.2	16590.4	15470.7	15553.9
65°	13719.1	13924.2	15176.9	17571.5	20398.5	23929.4	21834.2	18569.3	16285.5	14838.8	14678.1
67.5°	11823.4	11978.6	13569.4	16097.1	21113.6	26778.6	22942.8	17372.0	14362.1	12488.5	12588.3
70°	8237.0	8314.6	9872.2	13187.0	19145.8	25270.9	20697.8	13342.2	9916.6	7904.4	8015.3
72.5°	3314.8	3503.2	4528.7	7943.2	14134.8	19201.2	13935.3	7000.9	4113.0	3059.8	2777.1
75°	1225.0	1230.6	1446.7	2732.7	6712.7	12067.3	6285.8	2250.5	1313.7	1075.4	1025.5
77.5°	709.5	704.0	753.9	986.7	1945.6	4711.6	1784.9	881.3	715.1	643.0	615.3
80°	443.4	437.9	515.5	654.1	853.6	1291.5	753.9	548.8	482.2	415.7	415.7
82.5°	282.7	288.2	404.6	482.2	521.0	570.9	437.9	388.0	360.3	238.4	232.8
85°	182.9	166.3	282.7	321.5	288.2	255.0	243.9	205.1	188.5	116.4	127.5
87.5°	83.1	88.7	144.1	160.7	105.3	61.0	61.0	44.3	44.3	27.7	27.7
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)