

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: P478929

Luminaire Tested: **IFLD-L-SA8C-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478929
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

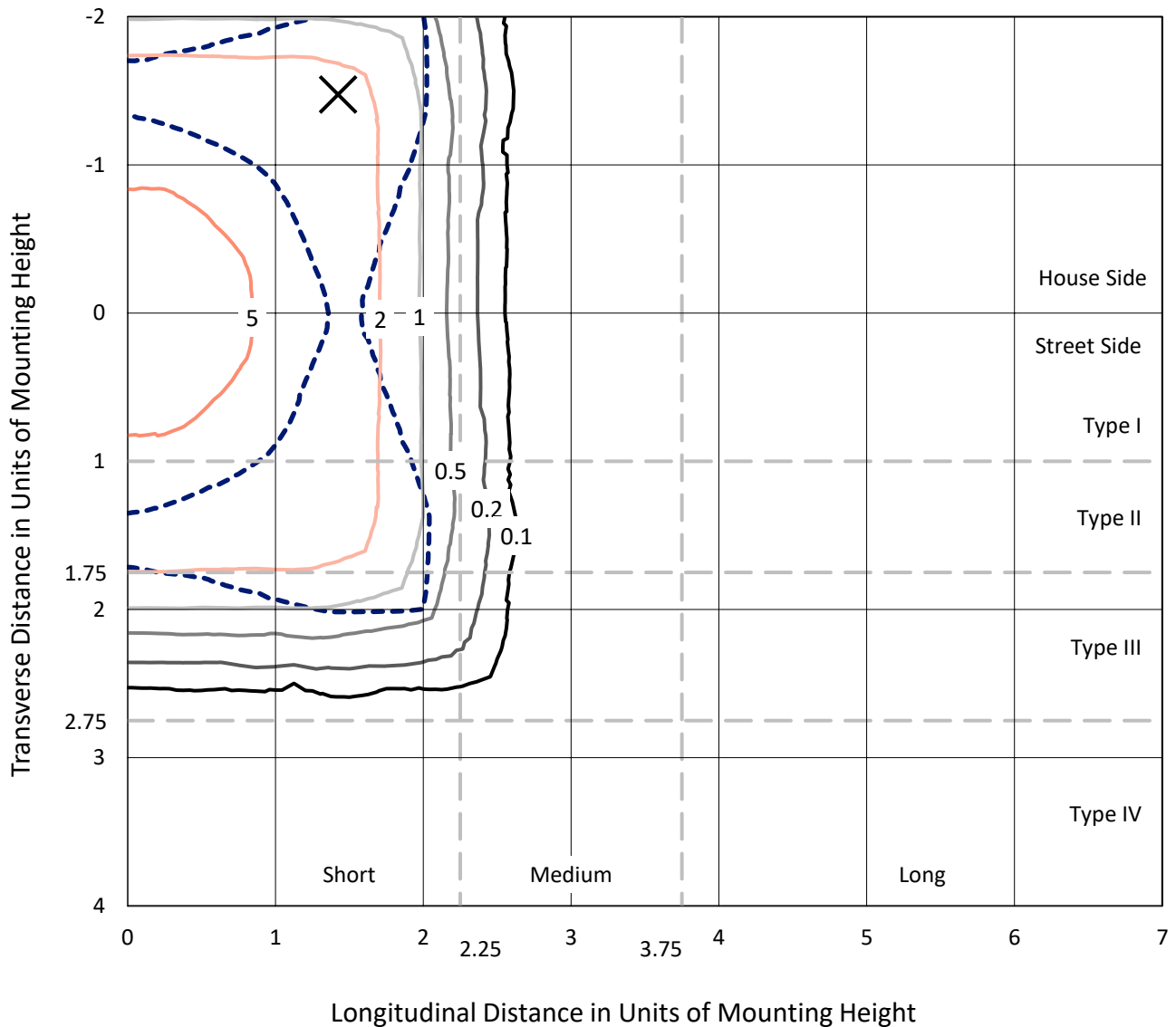
Lumens per Lamp: N/A
Luminaire Lumens: 49838.6 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 420.3
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: P478929
 CATALOG NUMBER: IFLD-L-SA8C-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

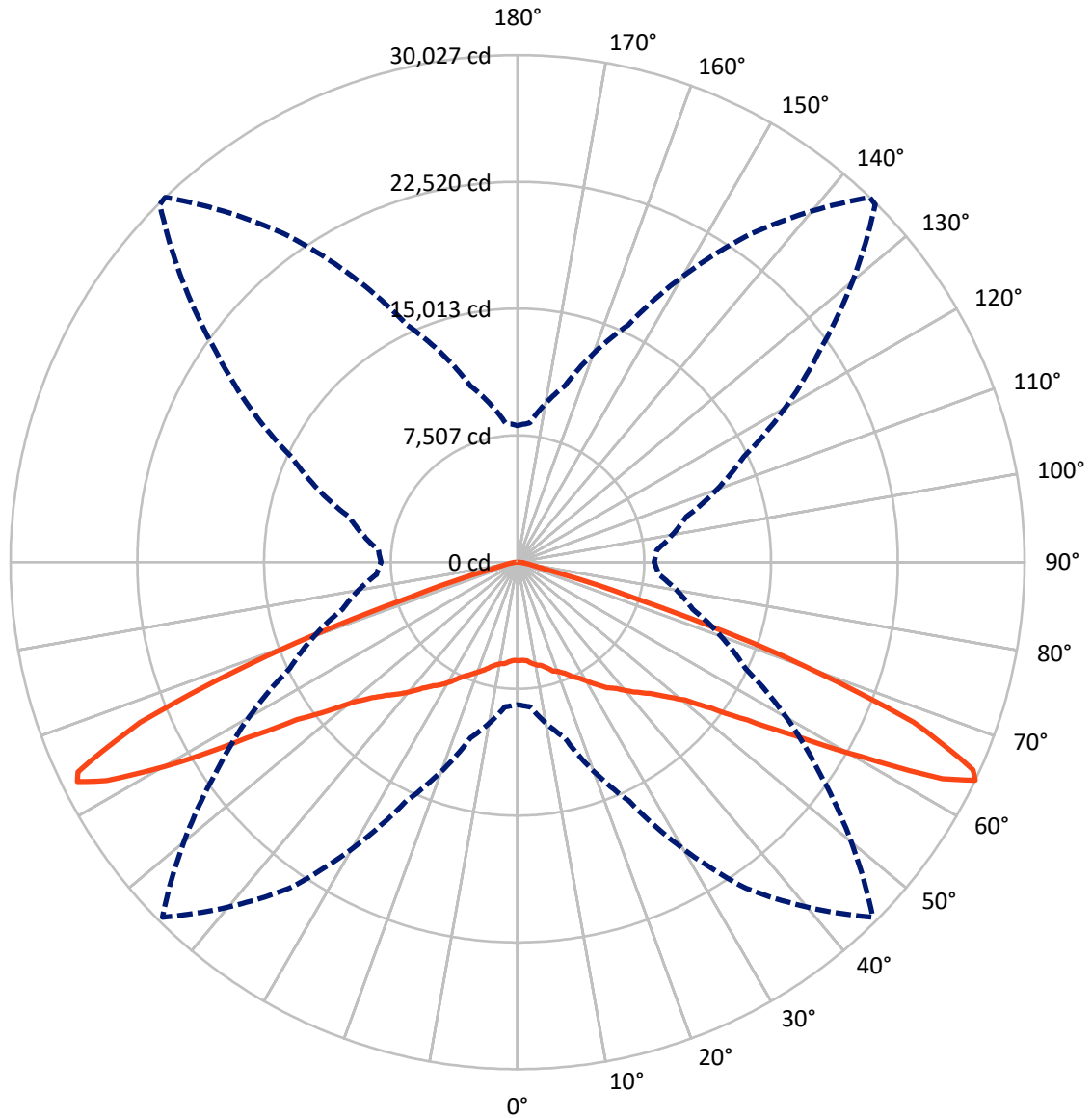
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

REPORT NUMBER: P478929
CATALOG NUMBER: IFLD-L-SA8C-735-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P478929

CATALOG NUMBER: IFLD-L-SA8C-735-U-5NQ

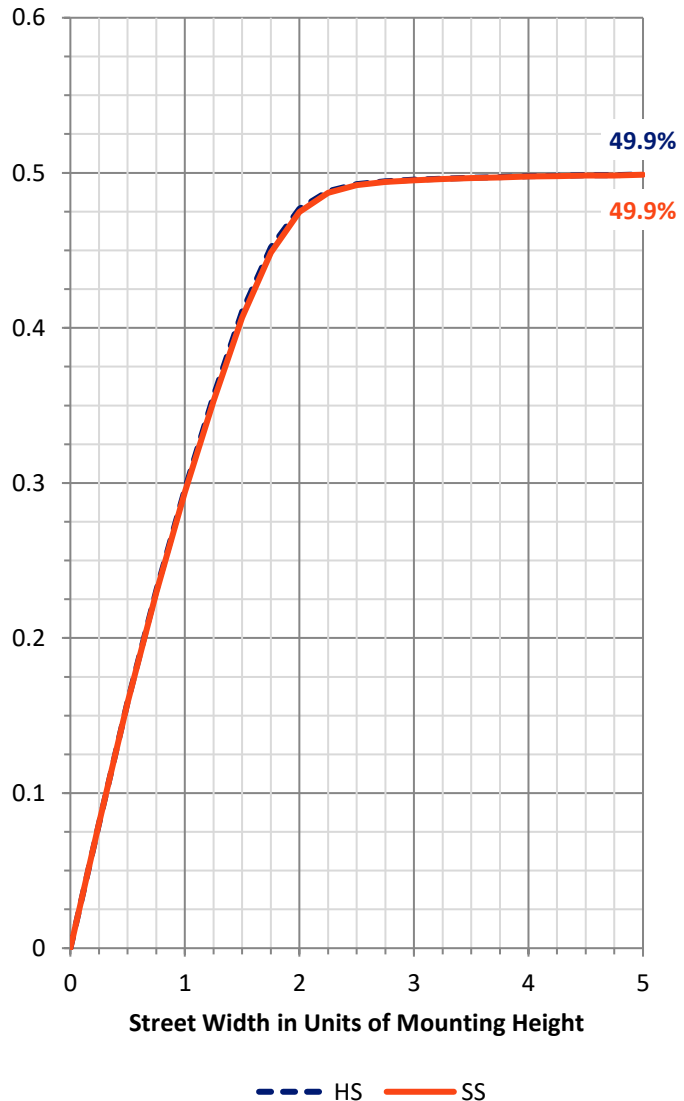
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24943.1	0.0	24943.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24895.6	0.0	24895.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	49838.6	0.0	49838.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.3	1.2
10°-20°	1847.9	3.7
20°-30°	3472.9	7.0
30°-40°	5727.4	11.5
40°-50°	8957.3	18.0
50°-60°	14472.9	29.0
60°-70°	13031.9	26.1
70°-80°	1543.7	3.1
80°-90°	211.3	0.4
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°	49838.6	100.0
0°-180°	49838.6	100.0

Coefficient of Utilization



REPORT NUMBER: P478929

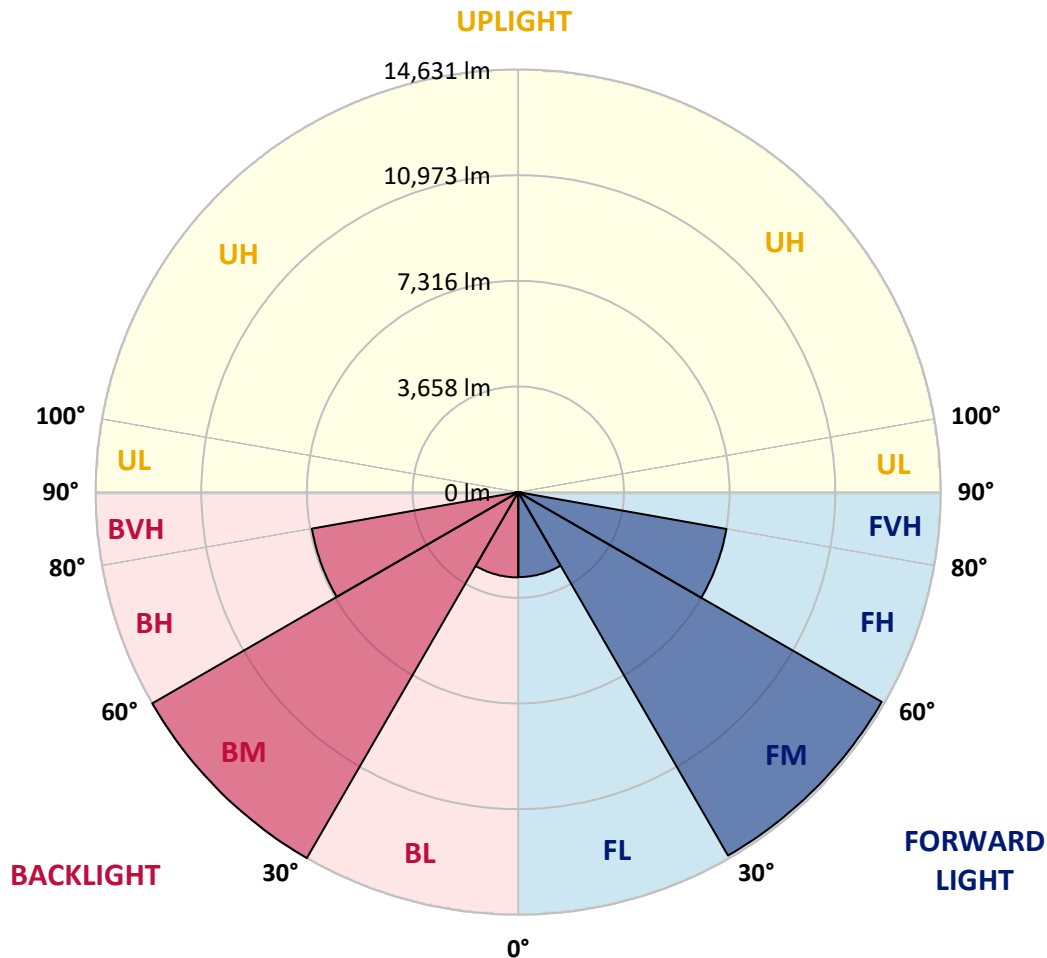
CATALOG NUMBER: IFLD-L-SA8C-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2941.4	5.9			
FM (30°-60°)	14526.4	29.1			
FH (60°-80°)	7319.4	14.7			G3/7500
FVH (80°-90°)	108.4	0.2			G2/225
BL (0°-30°)	2952.7	5.9	B4/5000		
BM (30°-60°)	14631.2	29.4	B5		
BH (60°-80°)	7256.2	14.6	B5		G3/7500
BVH (80°-90°)	102.9	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P478929

CATALOG NUMBER: IFLD-L-SA8C-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1
2.5°	5766.5	5777.9	5880.8	5840.8	5875.1	5812.2	5857.9	5955.1	5840.8	5926.5	5955.1
5°	5829.4	5846.5	5846.5	5886.5	5909.4	5897.9	5926.5	5886.5	5995.1	5949.4	6018.0
7.5°	6058.0	6029.4	5983.7	6018.0	6023.7	6052.3	6080.8	6132.3	6115.1	6075.1	6143.7
10°	6098.0	6075.1	6143.7	6149.4	6120.8	6098.0	6126.5	6126.5	6178.0	6189.4	6189.4
12.5°	6166.6	6189.4	6183.7	6229.4	6235.1	6218.0	6263.7	6349.4	6326.6	6343.7	6303.7
15°	6429.4	6400.9	6395.2	6440.9	6515.2	6406.6	6486.6	6480.9	6458.0	6492.3	6400.9
17.5°	6658.0	6566.6	6606.6	6680.9	6652.3	6675.2	6778.1	6686.6	6709.5	6669.5	6640.9
20°	6858.1	6783.8	6789.5	6818.1	6818.1	6886.7	6926.7	6892.4	6869.5	6863.8	6875.2
22.5°	7081.0	6995.2	7001.0	7121.0	7161.0	7138.1	7109.5	7166.7	7178.1	7132.4	7183.8
25°	7246.7	7338.1	7366.7	7423.9	7338.1	7401.0	7378.1	7486.7	7555.3	7463.9	7526.7
27.5°	7681.0	7641.0	7715.3	7709.6	7778.2	7715.3	7755.3	7789.6	7818.2	7823.9	7795.3
30°	8069.7	8086.8	8012.5	8212.5	8052.5	8155.4	8224.0	8241.1	8275.4	8275.4	8189.7
32.5°	8481.2	8446.9	8566.9	8521.2	8492.6	8572.6	8498.3	8732.6	8595.5	8675.5	8578.3
35°	8944.1	8944.1	8989.8	9115.5	8944.1	8892.6	9029.8	9127.0	9127.0	8984.1	9018.4
37.5°	9464.1	9418.4	9475.6	9635.6	9504.1	9332.7	9584.2	9624.2	9595.6	9555.6	9487.0
40°	9829.9	9818.5	9932.8	10144.2	9955.6	9921.3	9967.1	10075.7	10109.9	10150.0	10058.5
42.5°	10447.1	10498.6	10830.0	10778.6	10624.3	10504.3	10492.9	10898.6	10801.5	10698.6	10647.2
45°	11361.5	11315.8	11487.3	11493.0	11293.0	11030.1	11087.2	11458.7	11624.4	11395.8	11481.6
47.5°	12087.4	12110.2	12230.2	12476.0	12013.1	11738.7	11950.2	12550.3	12498.8	12413.1	12493.1
50°	13058.9	13161.8	13539.0	13453.3	13041.8	12704.6	13167.5	13733.3	13796.2	13481.8	13424.7
52.5°	14402.0	14562.0	14767.7	14836.3	14442.0	14321.9	14350.5	15053.5	14899.2	14596.3	14402.0
55°	15579.3	15653.6	16030.7	16596.5	16568.0	15990.7	16322.2	16585.1	15956.5	15333.5	15384.9
57.5°	16082.2	16116.5	17168.0	18299.6	18974.0	19105.5	18728.3	17842.4	16345.1	15144.9	15070.6
60°	14830.6	15156.3	16425.1	18979.7	22060.1	23580.3	21071.4	17985.3	15436.4	13979.0	13870.5
62.5°	11853.0	11870.2	13756.2	17631.0	23980.4	27963.8	21968.7	16642.3	13013.2	11361.5	10927.2
64°	8441.1	8601.2	10767.2	15607.8	23580.3	29746.9	21860.1	14887.7	10727.2	8384.0	8081.1
65°	6058.0	6280.9	8372.6	13550.4	22643.1	29535.4	21534.4	13379.0	8675.5	6400.9	6092.3
67.5°	2228.9	2320.3	3286.2	6778.1	16259.4	25169.1	17065.2	7355.3	3811.9	2714.7	2440.3
70°	1034.4	1040.1	1217.3	2240.3	7109.5	16830.9	8144.0	2760.4	1434.5	1137.3	1057.3
72.5°	760.1	777.2	851.5	1034.4	2091.7	7126.7	2674.6	1131.6	840.1	743.0	725.8
75°	617.2	628.7	651.5	748.7	965.8	1908.8	1085.9	783.0	668.7	600.1	577.2
77.5°	474.4	474.4	525.8	571.5	640.1	891.5	720.1	622.9	542.9	474.4	457.2
80°	342.9	348.6	411.5	445.8	434.3	588.7	520.1	514.4	445.8	371.5	342.9
82.5°	200.0	217.2	297.2	320.0	308.6	348.6	377.2	400.1	348.6	257.2	234.3
85°	114.3	120.0	171.5	177.2	177.2	165.7	217.2	240.0	234.3	160.0	142.9
87.5°	34.3	34.3	45.7	45.7	51.4	57.2	85.7	102.9	114.3	80.0	74.3
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: P478929
 CATALOG NUMBER: IFLD-L-SA8C-735-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1	5835.1
2.5°	5926.5	5840.8	5846.5	5869.4	5795.1	5823.6	5909.4	5846.5	5829.4	5795.1	5777.9
5°	5897.9	5989.4	5955.1	5966.5	5949.4	5869.4	5857.9	5909.4	5937.9	5886.5	5989.4
7.5°	6098.0	6058.0	6012.2	6029.4	5989.4	6058.0	6103.7	6000.8	6052.3	6023.7	5966.5
10°	6212.3	6138.0	6172.3	6160.8	6132.3	6200.8	6155.1	6143.7	6098.0	6035.1	6126.5
12.5°	6252.3	6338.0	6395.2	6298.0	6315.1	6280.9	6252.3	6252.3	6200.8	6183.7	6200.8
15°	6429.4	6503.7	6480.9	6555.2	6458.0	6492.3	6526.6	6440.9	6486.6	6360.9	6458.0
17.5°	6755.2	6692.3	6772.3	6675.2	6709.5	6778.1	6669.5	6669.5	6703.8	6635.2	6549.5
20°	6960.9	6932.4	6903.8	6909.5	6852.4	6915.2	6880.9	6863.8	6812.4	6835.2	6880.9
22.5°	7155.3	7115.3	7126.7	7143.8	7183.8	7155.3	7138.1	7155.3	7029.5	7143.8	6983.8
25°	7395.3	7503.9	7469.6	7543.9	7429.6	7503.9	7498.2	7389.6	7458.2	7412.4	7378.1
27.5°	7795.3	7738.2	7789.6	7698.2	7778.2	7783.9	7715.3	7898.2	7818.2	7806.8	7783.9
30°	8309.7	8269.7	8235.4	8184.0	8246.8	8195.4	8252.5	8269.7	8195.4	8138.2	8029.7
32.5°	8601.2	8709.8	8749.8	8624.0	8629.7	8658.3	8606.9	8555.4	8601.2	8618.3	8601.2
35°	9012.7	9115.5	9138.4	9041.2	8989.8	9132.7	9029.8	9201.3	9052.7	9058.4	8904.1
37.5°	9492.7	9521.3	9715.6	9607.0	9561.3	9492.7	9681.3	9658.5	9692.7	9418.4	9555.6
40°	10035.6	10138.5	10247.1	9972.8	9967.1	10029.9	10018.5	10150.0	10087.1	10047.1	9949.9
42.5°	10630.0	10847.2	10864.3	10681.5	10567.2	10555.7	10612.9	10904.3	10910.1	10647.2	10532.9
45°	11418.7	11658.7	11595.9	11241.5	11115.8	11098.7	11378.7	11504.4	11613.0	11510.1	11413.0
47.5°	12401.7	12561.7	12516.0	12190.2	11784.5	11898.8	12173.1	12567.4	12453.1	12316.0	12201.7
50°	13453.3	13641.9	13544.7	13218.9	12830.3	12830.3	13167.5	13670.4	13636.1	13367.5	13264.7
52.5°	14619.1	14893.5	15116.3	14653.4	14327.7	14379.1	14910.6	15093.5	15007.8	14819.2	14733.4
55°	15487.8	16013.6	16470.8	16493.7	16510.8	16505.1	16642.3	16825.1	16213.6	15910.7	15602.1
57.5°	15276.4	16270.8	17836.7	18899.7	19214.0	19379.8	19334.1	18488.2	17042.3	16047.9	16150.8
60°	13767.6	15390.7	17916.7	21328.6	23614.6	23386.0	22551.6	19208.3	16585.1	14904.9	14693.4
62.5°	10984.3	12938.9	16573.7	22014.4	28312.4	28243.8	23877.5	17545.2	13819.0	11693.0	11561.6
64°	8275.4	10332.8	14784.9	21837.3	29958.4	30026.9	23540.3	15499.2	10812.9	8275.4	8075.4
65°	6332.3	8241.1	13030.3	21471.5	29604.0	29644.0	22603.1	13384.7	8218.3	5875.1	5657.9
67.5°	2520.3	3509.0	7069.5	16282.2	25420.6	25312.0	16127.9	6475.2	3143.3	2046.0	2006.0
70°	1074.4	1337.3	2480.3	7715.3	17019.5	16705.1	6943.8	2103.1	1165.9	977.3	971.6
72.5°	737.2	817.3	1063.0	2383.2	7075.2	6909.5	1977.4	977.3	794.4	731.5	731.5
75°	594.4	651.5	771.5	1000.1	1874.5	1806.0	931.6	720.1	634.4	588.7	582.9
77.5°	462.9	520.1	605.8	691.5	857.3	851.5	622.9	542.9	491.5	457.2	445.8
80°	365.8	422.9	480.1	491.5	560.1	548.6	422.9	428.6	400.1	331.5	325.8
82.5°	251.5	342.9	382.9	348.6	331.5	331.5	302.9	302.9	280.0	205.7	188.6
85°	154.3	228.6	240.0	205.7	154.3	154.3	165.7	160.0	148.6	108.6	102.9
87.5°	80.0	108.6	97.2	80.0	51.4	51.4	45.7	34.3	34.3	28.6	28.6
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)