

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: P478847

Luminaire Tested: **IFLD-L-SA7D-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478847
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

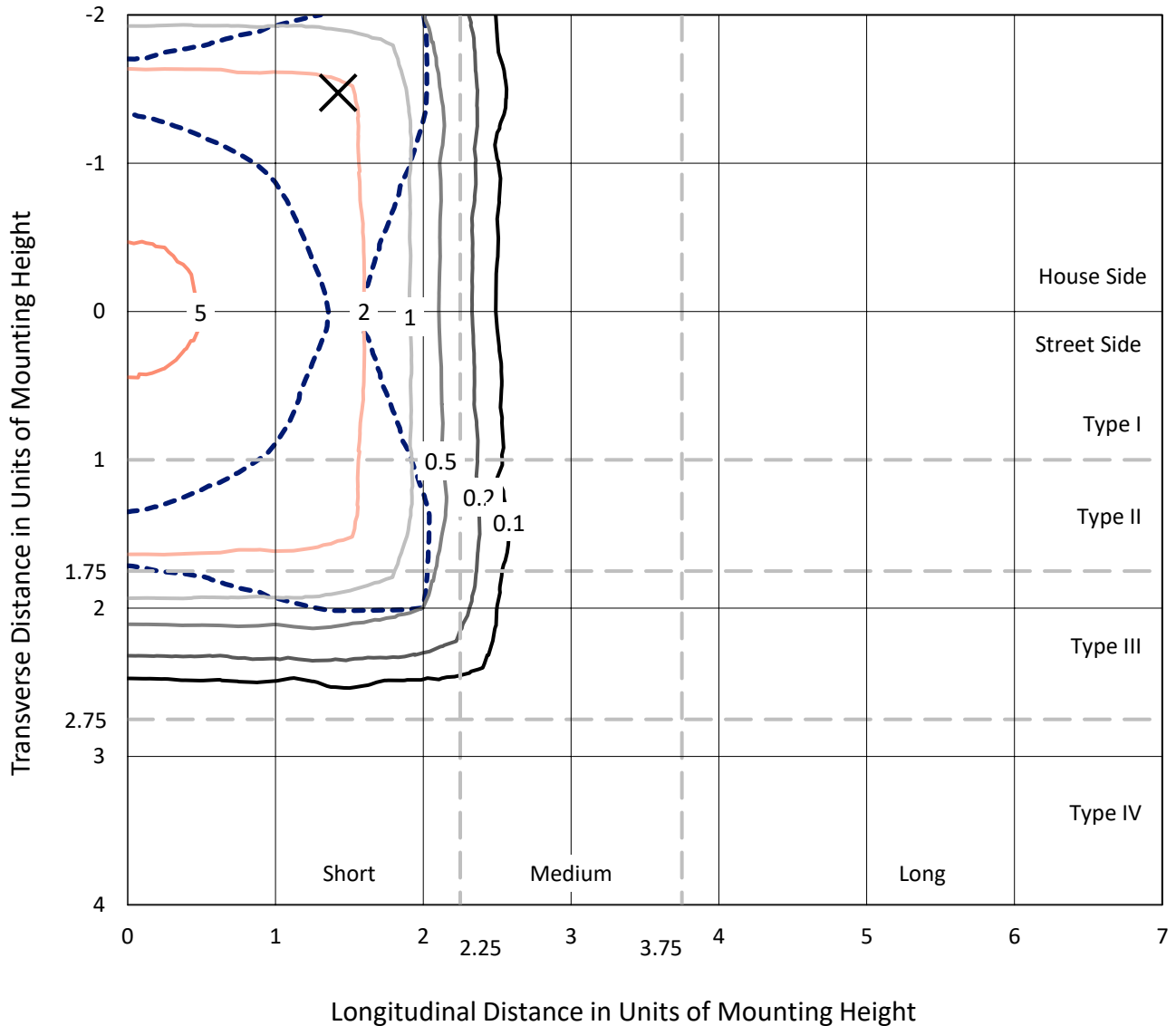
Lumens per Lamp: N/A
Luminaire Lumens: 40686.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 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: P478847
 CATALOG NUMBER: IFLD-L-SA7D-727-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

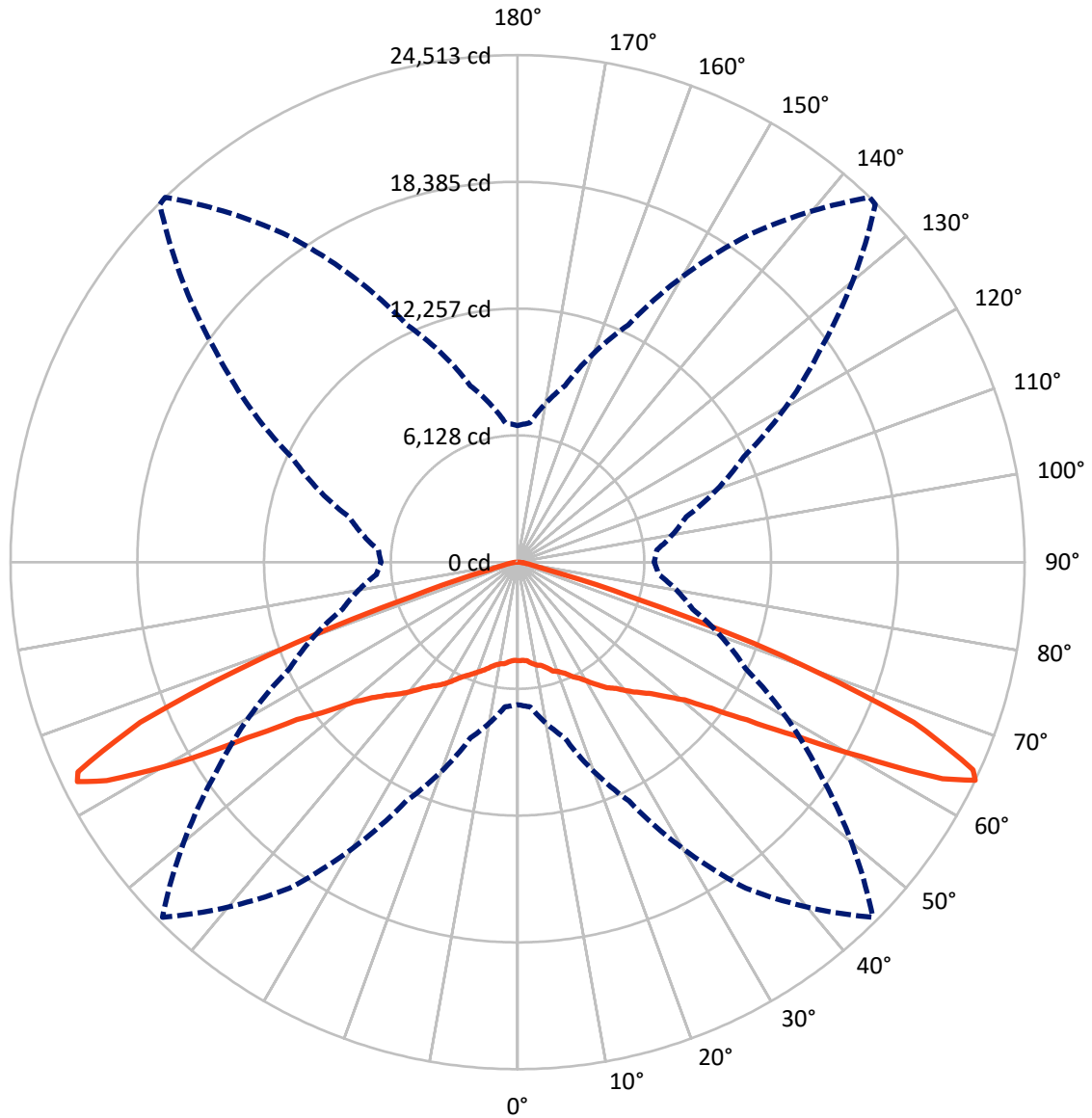
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P478847
CATALOG NUMBER: IFLD-L-SA7D-727-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478847

CATALOG NUMBER: IFLD-L-SA7D-727-U-5NQ

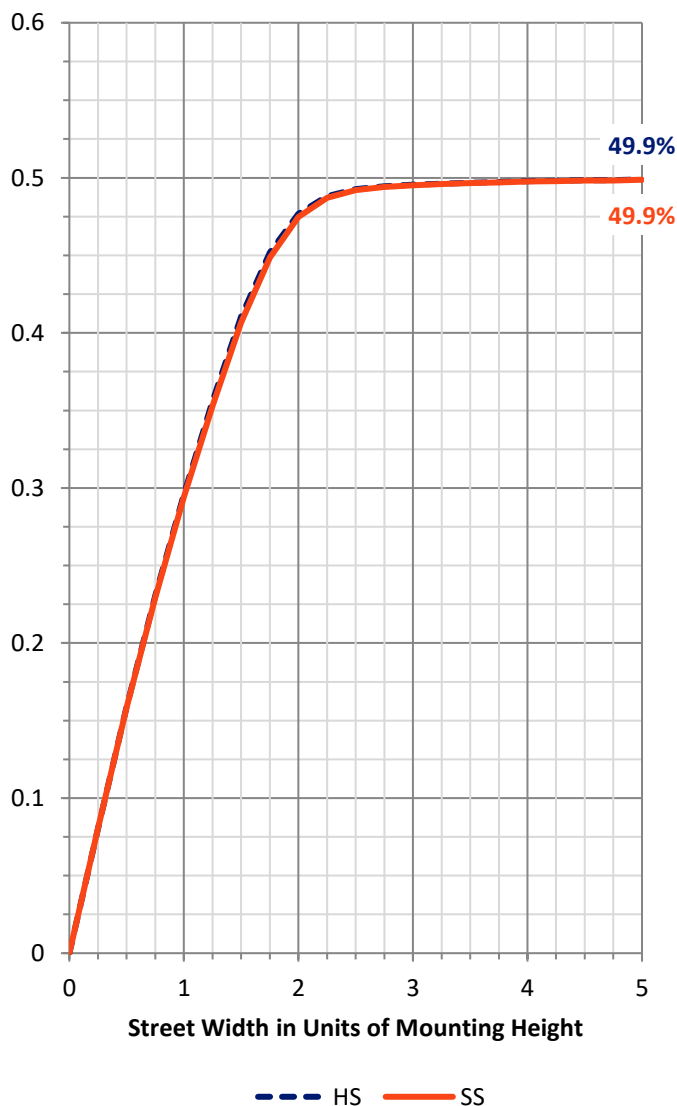
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20362.8	0.0	20362.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20324.0	0.0	20324.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40686.8	0.0	40686.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.1	1.2
10°-20°	1508.6	3.7
20°-30°	2835.2	7.0
30°-40°	4675.7	11.5
40°-50°	7312.5	18.0
50°-60°	11815.2	29.0
60°-70°	10638.8	26.1
70°-80°	1260.2	3.1
80°-90°	172.5	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°	40686.8	100.0
0°-180°	40686.8	100.0

Coefficient of Utilization



REPORT NUMBER: P478847

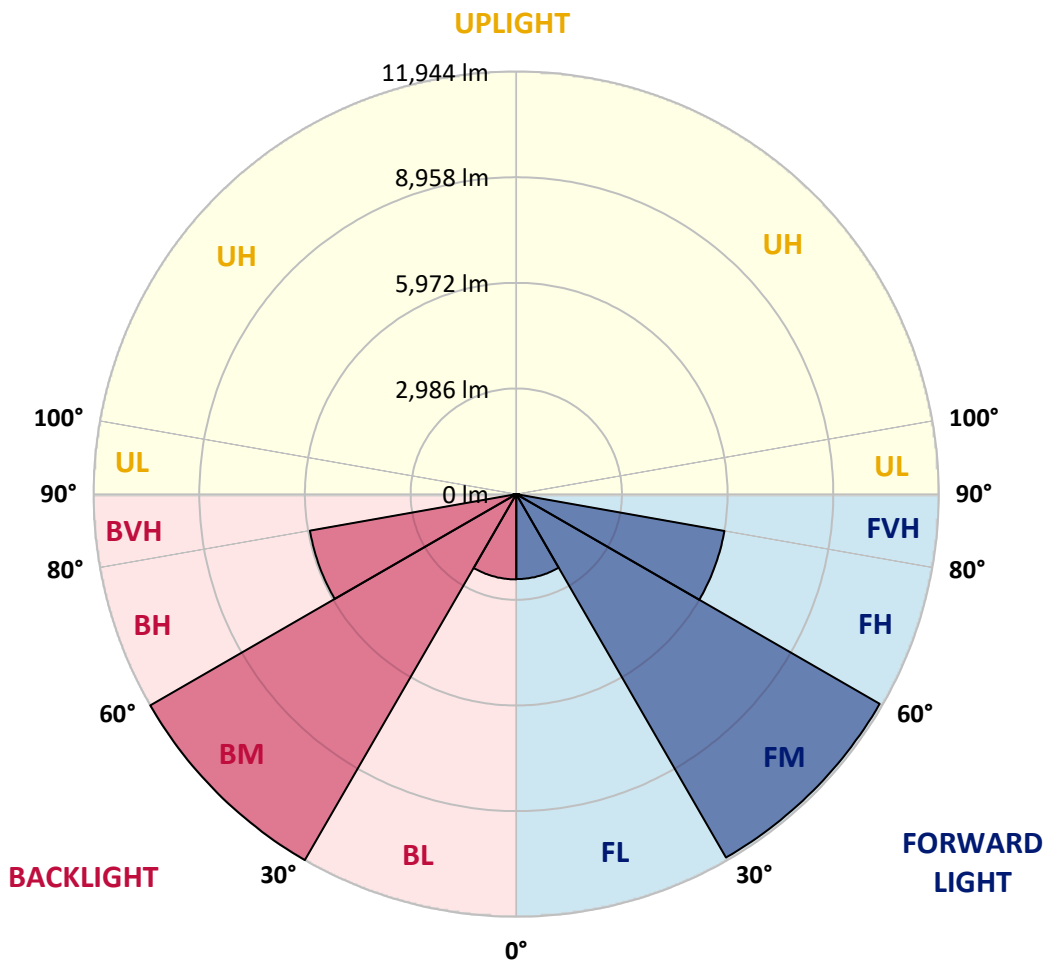
CATALOG NUMBER: IFLD-L-SA7D-727-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.3	5.9			
FM (30°-60°)	11858.9	29.1			
FH (60°-80°)	5975.3	14.7			G3/7500
FVH (80°-90°)	88.5	0.2			G1/100
BL (0°-30°)	2410.5	5.9	B3/2500		
BM (30°-60°)	11944.5	29.4	B5		
BH (60°-80°)	5923.7	14.6	B5		G3/7500
BVH (80°-90°)	84.0	0.2			G1/100
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: P478847

CATALOG NUMBER: IFLD-L-SA7D-727-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6
2.5°	4707.6	4716.9	4800.9	4768.3	4796.2	4744.9	4782.2	4861.6	4768.3	4838.2	4861.6
5°	4758.9	4772.9	4772.9	4805.6	4824.2	4814.9	4838.2	4805.6	4894.2	4856.9	4912.9
7.5°	4945.5	4922.2	4884.9	4912.9	4917.6	4940.9	4964.2	5006.2	4992.2	4959.5	5015.5
10°	4978.2	4959.5	5015.5	5020.2	4996.9	4978.2	5001.5	5001.5	5043.5	5052.9	5052.9
12.5°	5034.2	5052.9	5048.2	5085.5	5090.2	5076.2	5113.5	5183.5	5164.8	5178.8	5146.2
15°	5248.8	5225.5	5220.8	5258.1	5318.8	5230.1	5295.5	5290.8	5272.1	5300.1	5225.5
17.5°	5435.4	5360.8	5393.4	5454.1	5430.8	5449.4	5533.4	5458.8	5477.4	5444.8	5421.4
20°	5598.7	5538.1	5542.7	5566.1	5566.1	5622.1	5654.7	5626.7	5608.1	5603.4	5612.7
22.5°	5780.7	5710.7	5715.4	5813.3	5846.0	5827.3	5804.0	5850.7	5860.0	5822.7	5864.7
25°	5916.0	5990.6	6014.0	6060.6	5990.6	6042.0	6023.3	6111.9	6167.9	6093.3	6144.6
27.5°	6270.6	6237.9	6298.6	6293.9	6349.9	6298.6	6331.2	6359.2	6382.6	6387.2	6363.9
30°	6587.8	6601.8	6541.2	6704.5	6573.8	6657.8	6713.8	6727.8	6755.8	6755.8	6685.8
32.5°	6923.8	6895.8	6993.7	6956.4	6933.1	6998.4	6937.8	7129.0	7017.1	7082.4	7003.1
35°	7301.7	7301.7	7339.0	7441.6	7301.7	7259.7	7371.7	7451.0	7451.0	7334.3	7362.3
37.5°	7726.2	7688.9	7735.6	7866.2	7758.9	7618.9	7824.2	7856.9	7833.6	7800.9	7744.9
40°	8024.8	8015.5	8108.8	8281.5	8127.5	8099.5	8136.8	8225.5	8253.5	8286.1	8211.5
42.5°	8528.7	8570.7	8841.3	8799.3	8673.4	8575.4	8566.1	8897.3	8818.0	8734.0	8692.0
45°	9275.2	9237.9	9377.9	9382.5	9219.2	9004.6	9051.3	9354.5	9489.8	9303.2	9373.2
47.5°	9867.8	9886.4	9984.4	10185.0	9807.1	9583.2	9755.8	10245.7	10203.7	10133.7	10199.0
50°	10660.9	10744.9	11052.8	10982.8	10646.9	10371.6	10749.6	11211.5	11262.8	11006.2	10959.5
52.5°	11757.3	11888.0	12055.9	12111.9	11790.0	11692.0	11715.3	12289.2	12163.2	11916.0	11757.3
55°	12718.4	12779.1	13087.0	13548.9	13525.6	13054.4	13325.0	13539.6	13026.4	12517.8	12559.8
57.5°	13129.0	13157.0	14015.5	14939.3	15489.8	15597.1	15289.2	14566.0	13343.6	12363.9	12303.2
60°	12107.3	12373.2	13409.0	15494.5	18009.2	19250.3	17202.1	14682.7	12601.8	11412.1	11323.4
62.5°	9676.5	9690.5	11230.1	14393.4	19576.9	22828.8	17934.6	13586.3	10623.6	9275.2	8920.6
64°	6891.1	7021.7	8790.0	12741.8	19250.3	24284.5	17846.0	12153.9	8757.3	6844.4	6597.2
65°	4945.5	5127.5	6835.1	11062.2	18485.1	24111.9	17580.0	10922.2	7082.4	5225.5	4973.5
67.5°	1819.6	1894.2	2682.7	5533.4	13273.7	20547.3	13931.5	6004.6	3112.0	2216.2	1992.2
70°	844.5	849.1	993.8	1828.9	5804.0	13740.2	6648.5	2253.5	1171.1	928.5	863.1
72.5°	620.5	634.5	695.2	844.5	1707.6	5818.0	2183.5	923.8	685.8	606.5	592.5
75°	503.9	513.2	531.9	611.2	788.5	1558.3	886.5	639.2	545.9	489.9	471.2
77.5°	387.2	387.2	429.2	466.6	522.5	727.8	587.9	508.6	443.2	387.2	373.2
80°	279.9	284.6	335.9	363.9	354.6	480.6	424.6	419.9	363.9	303.3	279.9
82.5°	163.3	177.3	242.6	261.3	251.9	284.6	307.9	326.6	284.6	210.0	191.3
85°	93.3	98.0	140.0	144.6	144.6	135.3	177.3	196.0	191.3	130.6	116.6
87.5°	28.0	28.0	37.3	37.3	42.0	46.7	70.0	84.0	93.3	65.3	60.7
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: P478847
 CATALOG NUMBER: IFLD-L-SA7D-727-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6
2.5°	4838.2	4768.3	4772.9	4791.6	4730.9	4754.3	4824.2	4772.9	4758.9	4730.9	4716.9
5°	4814.9	4889.6	4861.6	4870.9	4856.9	4791.6	4782.2	4824.2	4847.6	4805.6	4889.6
7.5°	4978.2	4945.5	4908.2	4922.2	4889.6	4945.5	4982.9	4898.9	4940.9	4917.6	4870.9
10°	5071.5	5010.9	5038.9	5029.5	5006.2	5062.2	5024.9	5015.5	4978.2	4926.9	5001.5
12.5°	5104.2	5174.2	5220.8	5141.5	5155.5	5127.5	5104.2	5104.2	5062.2	5048.2	5062.2
15°	5248.8	5309.5	5290.8	5351.5	5272.1	5300.1	5328.1	5258.1	5295.5	5192.8	5272.1
17.5°	5514.7	5463.4	5528.7	5449.4	5477.4	5533.4	5444.8	5444.8	5472.8	5416.8	5346.8
20°	5682.7	5659.4	5636.1	5640.7	5594.1	5645.4	5617.4	5603.4	5561.4	5580.1	5617.4
22.5°	5841.3	5808.7	5818.0	5832.0	5864.7	5841.3	5827.3	5841.3	5738.7	5832.0	5701.4
25°	6037.3	6125.9	6098.0	6158.6	6065.3	6125.9	6121.3	6032.6	6088.6	6051.3	6023.3
27.5°	6363.9	6317.2	6359.2	6284.6	6349.9	6354.6	6298.6	6447.9	6382.6	6373.2	6354.6
30°	6783.8	6751.1	6723.1	6681.2	6732.5	6690.5	6737.1	6751.1	6690.5	6643.8	6555.2
32.5°	7021.7	7110.4	7143.0	7040.4	7045.1	7068.4	7026.4	6984.4	7021.7	7035.7	7021.7
35°	7357.7	7441.6	7460.3	7381.0	7339.0	7455.6	7371.7	7511.6	7390.3	7395.0	7269.0
37.5°	7749.6	7772.9	7931.5	7842.9	7805.6	7749.6	7903.5	7884.9	7912.9	7688.9	7800.9
40°	8192.8	8276.8	8365.4	8141.5	8136.8	8188.1	8178.8	8286.1	8234.8	8202.1	8122.8
42.5°	8678.0	8855.3	8869.3	8720.0	8626.7	8617.4	8664.0	8902.0	8906.6	8692.0	8598.7
45°	9321.9	9517.8	9466.5	9177.3	9074.6	9060.6	9289.2	9391.9	9480.5	9396.5	9317.2
47.5°	10124.4	10255.0	10217.7	9951.7	9620.5	9713.8	9937.7	10259.7	10166.4	10054.4	9961.1
50°	10982.8	11136.8	11057.5	10791.6	10474.3	10474.3	10749.6	11160.1	11132.1	10912.9	10828.9
52.5°	11934.6	12158.6	12340.5	11962.6	11696.7	11738.7	12172.6	12321.9	12251.9	12097.9	12027.9
55°	12643.8	13073.0	13446.3	13464.9	13478.9	13474.3	13586.3	13735.6	13236.3	12989.1	12737.1
57.5°	12471.2	13283.0	14561.4	15429.2	15685.8	15821.1	15783.8	15093.2	13912.8	13101.0	13185.0
60°	11239.5	12564.5	14626.7	17412.1	19278.3	19091.7	18410.5	15681.1	13539.6	12167.9	11995.3
62.5°	8967.3	10562.9	13530.3	17971.9	23113.4	23057.4	19492.9	14323.4	11281.4	9545.8	9438.5
64°	6755.8	8435.4	12069.9	17827.3	24457.1	24513.1	19217.6	12653.1	8827.3	6755.8	6592.5
65°	5169.5	6727.8	10637.6	17528.7	24167.9	24200.5	18452.5	10926.9	6709.1	4796.2	4619.0
67.5°	2057.5	2864.7	5771.4	13292.3	20752.6	20664.0	13166.3	5286.1	2566.1	1670.3	1637.6
70°	877.1	1091.8	2024.9	6298.6	13894.2	13637.6	5668.7	1716.9	951.8	797.8	793.2
72.5°	601.9	667.2	867.8	1945.6	5776.0	5640.7	1614.3	797.8	648.5	597.2	597.2
75°	485.2	531.9	629.9	816.5	1530.3	1474.3	760.5	587.9	517.9	480.6	475.9
77.5°	377.9	424.6	494.6	564.5	699.8	695.2	508.6	443.2	401.2	373.2	363.9
80°	298.6	345.3	391.9	401.2	457.2	447.9	345.3	349.9	326.6	270.6	265.9
82.5°	205.3	279.9	312.6	284.6	270.6	270.6	247.3	247.3	228.6	168.0	154.0
85°	126.0	186.6	196.0	168.0	126.0	126.0	135.3	130.6	121.3	88.6	84.0
87.5°	65.3	88.6	79.3	65.3	42.0	42.0	37.3	28.0	28.0	23.3	23.3
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)