

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: P481307

Luminaire Tested: **IFLD-L-SA8B-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481307
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

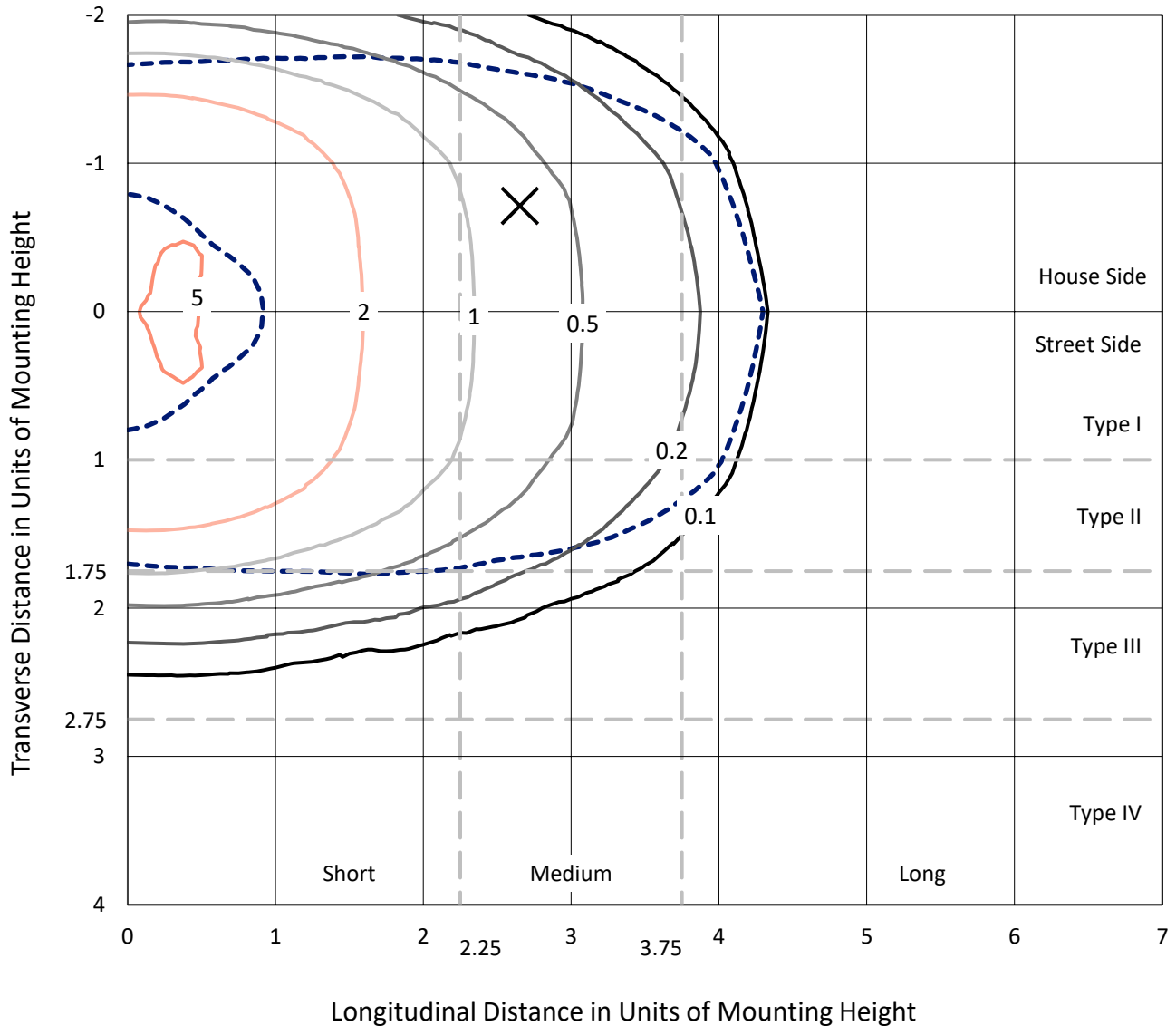
Lumens per Lamp: N/A
Luminaire Lumens: 41920.8 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 320
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

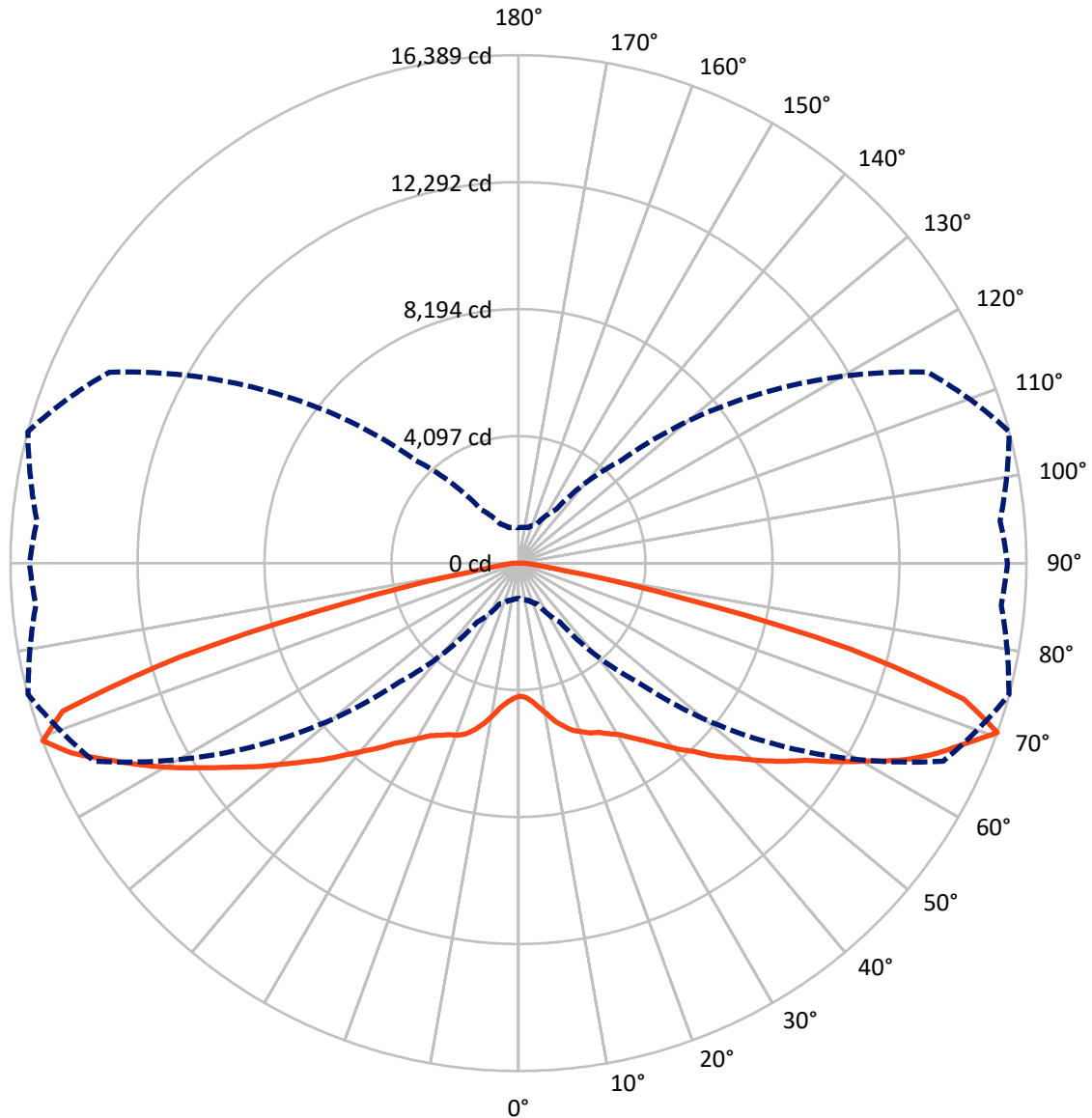
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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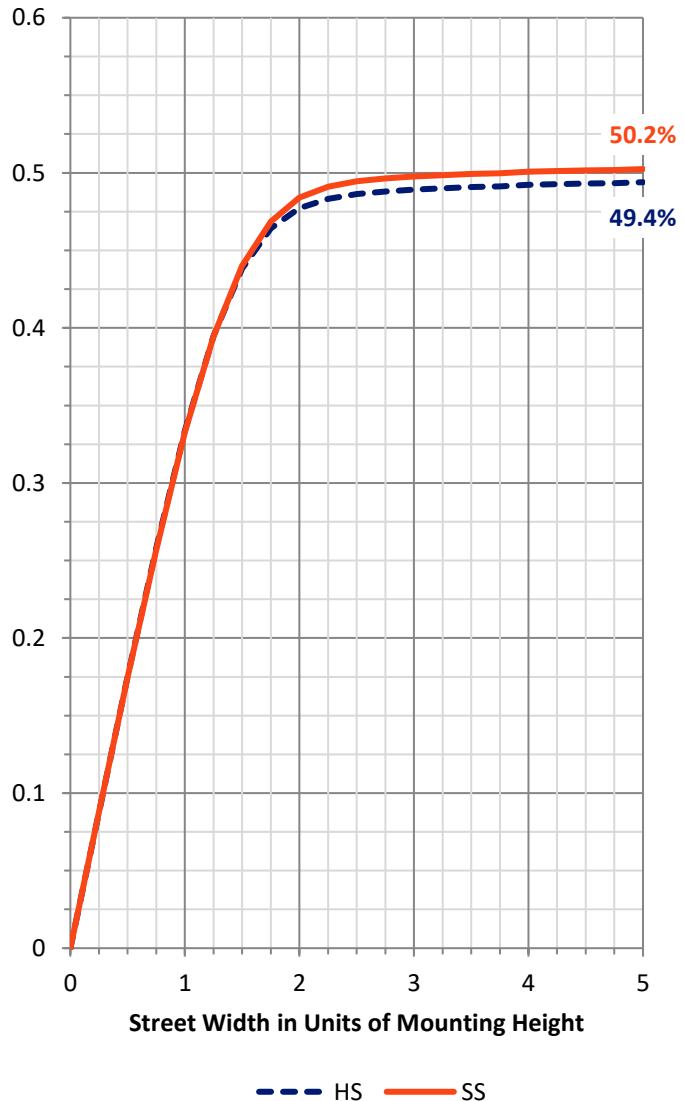
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20811.3	0.0	20811.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21109.5	0.0	21109.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	41920.8	0.0	41920.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.3	1.0
10°-20°	1454.8	3.5
20°-30°	2817.0	6.7
30°-40°	4764.7	11.4
40°-50°	7601.1	18.1
50°-60°	10404.2	24.8
60°-70°	9806.7	23.4
70°-80°	4320.1	10.3
80°-90°	325.0	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°	41920.8	100.0
0°-180°	41920.8	100.0

Coefficient of Utilization

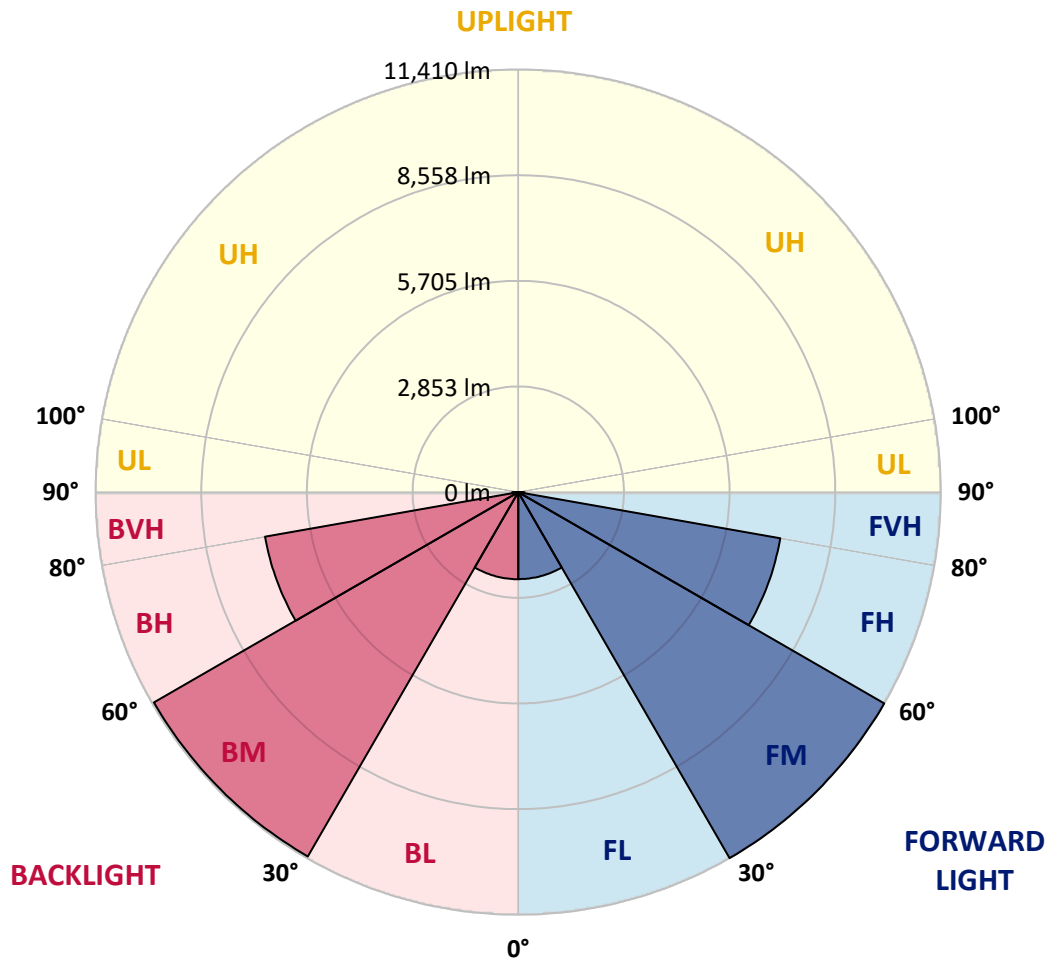


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2348.2	5.6			
FM (30°-60°)	11410.5	27.2			
FH (60°-80°)	7184.8	17.1			G3/7500
FVH (80°-90°)	166.0	0.4			G2/225
BL (0°-30°)	2350.8	5.6	B3/2500		
BM (30°-60°)	11359.5	27.1	B5		
BH (60°-80°)	6942.0	16.6	B5		G5
BVH (80°-90°)	159.0	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°	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6
2.5°	4265.5	4265.5	4261.0	4283.6	4306.2	4315.2	4333.3	4337.8	4364.9	4342.3	4387.5
5°	4252.0	4247.5	4283.6	4337.8	4337.8	4396.6	4432.7	4482.4	4496.0	4523.1	4532.1
7.5°	4346.9	4337.8	4319.8	4378.5	4428.2	4518.6	4568.3	4654.1	4685.8	4721.9	4762.6
10°	4405.6	4405.6	4387.5	4491.5	4536.6	4658.6	4767.1	4852.9	4974.9	5015.6	5020.1
12.5°	4414.6	4428.2	4482.4	4618.0	4744.5	4902.7	4984.0	5146.7	5268.7	5345.5	5372.6
15°	4550.2	4523.1	4581.8	4767.1	4952.4	5092.4	5237.0	5354.5	5530.7	5630.1	5693.4
17.5°	4672.2	4645.1	4753.5	4974.9	5164.7	5381.6	5508.1	5634.7	5761.2	5851.6	5856.1
20°	4866.5	4889.1	4984.0	5223.5	5472.0	5661.8	5806.4	5829.0	5892.2	6023.3	6000.7
22.5°	5106.0	5087.9	5286.7	5548.8	5819.9	5978.1	6059.4	6000.7	5969.0	6109.1	6140.7
25°	5345.5	5399.7	5580.4	5824.4	6149.8	6362.2	6384.7	6222.1	6104.6	6154.3	6140.7
27.5°	5711.5	5720.5	5910.3	6199.5	6529.3	6714.6	6701.0	6470.6	6244.7	6249.2	6258.2
30°	6181.4	6136.2	6344.1	6606.2	6931.5	7098.7	7121.3	6791.4	6488.7	6398.3	6420.9
32.5°	6633.3	6687.5	6868.2	7166.5	7405.9	7500.8	7451.1	7157.4	6764.3	6642.3	6655.9
35°	7211.6	7202.6	7451.1	7704.2	7884.9	7903.0	7862.3	7433.1	7062.5	6904.4	6841.1
37.5°	7830.7	7912.0	8074.7	8282.5	8472.3	8481.4	8260.0	7916.5	7460.2	7198.1	7274.9
40°	8522.0	8612.4	8729.9	9032.6	9172.7	9028.1	8802.2	8336.8	7862.3	7631.9	7668.0
42.5°	9132.0	9172.7	9412.2	9769.2	9836.9	9773.7	9439.3	8874.5	8323.2	8070.2	8088.2
45°	9692.3	9746.6	10058.3	10379.2	10537.3	10428.9	10040.3	9502.6	8860.9	8644.0	8558.2
47.5°	10207.5	10315.9	10618.6	10948.5	11192.5	11201.5	10722.6	10071.9	9394.1	9109.4	9104.9
50°	10555.4	10713.5	11011.8	11386.8	11743.8	11883.8	11404.9	10704.5	9977.0	9674.3	9642.6
52.5°	10745.2	10907.8	11206.1	11789.0	12186.6	12403.5	12177.6	11296.4	10659.3	10343.0	10293.3
55°	10514.7	10623.2	11111.2	11929.0	12543.6	12900.5	12751.4	12114.3	11337.1	11079.5	11124.7
57.5°	9534.2	9760.1	10361.1	11382.3	12534.5	13411.1	13397.6	12887.0	12118.8	11874.8	11883.8
60°	7848.8	8038.5	8779.6	10207.5	12028.4	13619.0	14097.9	13637.1	12995.4	12710.7	12701.7
62.5°	5539.8	5779.3	6637.8	8196.7	10537.3	13329.8	14902.3	14581.4	13853.9	13646.1	13722.9
65°	3099.7	3244.3	4039.6	5449.4	8029.5	11739.3	15046.8	15562.0	14726.0	14409.7	14423.3
67.5°	1658.3	1712.5	2083.1	2860.3	4911.7	9050.7	13587.3	16126.8	15670.4	15123.7	15037.8
70°	1138.7	1156.8	1251.6	1464.0	2322.5	5413.3	10248.1	15119.1	16379.8	15634.3	15778.9
72.5°	962.5	953.4	976.0	998.6	1215.5	2422.0	6014.2	11635.3	15462.6	15182.4	15128.2
75°	835.9	831.4	840.5	817.9	845.0	1066.4	2661.4	7252.3	11319.0	12633.9	12837.3
77.5°	691.3	695.9	700.4	677.8	668.7	704.9	1070.9	3185.6	5571.4	6149.8	6633.3
80°	524.2	533.2	569.3	546.7	510.6	515.1	632.6	1066.4	1599.6	1450.5	1495.6
82.5°	357.0	361.5	438.3	411.2	384.1	347.9	406.7	551.3	623.6	474.5	415.7
85°	253.0	248.5	284.7	262.1	244.0	176.2	244.0	311.8	375.0	235.0	212.4
87.5°	58.7	58.7	117.5	94.9	90.4	72.3	94.9	122.0	162.7	103.9	94.9
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°	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6	4292.6
2.5°	4374.0	4333.3	4333.3	4324.3	4288.1	4279.1	4247.5	4256.5	4233.9	4211.3
5°	4527.6	4473.4	4473.4	4396.6	4324.3	4315.2	4279.1	4279.1	4242.9	4252.0
7.5°	4740.0	4690.3	4608.9	4541.2	4441.8	4401.1	4333.3	4324.3	4315.2	4297.2
10°	4993.0	4929.8	4848.4	4708.4	4627.0	4550.2	4482.4	4387.5	4364.9	4369.5
12.5°	5336.4	5237.0	5060.8	4938.8	4834.9	4735.5	4636.1	4496.0	4464.3	4477.9
15°	5580.4	5453.9	5277.7	5232.5	5092.4	4970.4	4807.8	4649.6	4595.4	4581.8
17.5°	5779.3	5675.3	5571.4	5503.6	5390.7	5241.5	5015.6	4834.9	4712.9	4699.3
20°	5941.9	5806.4	5783.8	5824.4	5684.4	5585.0	5309.3	5087.9	4925.2	4857.5
22.5°	6041.3	5955.5	6018.7	6054.9	6045.9	5878.7	5594.0	5336.4	5133.1	5069.8
25°	6149.8	6050.4	6276.3	6398.3	6429.9	6154.3	5932.9	5594.0	5395.2	5354.5
27.5°	6204.0	6240.1	6502.2	6759.8	6737.2	6524.8	6226.6	5923.8	5765.7	5693.4
30°	6362.2	6420.9	6818.5	7107.7	7112.2	6904.4	6678.5	6335.0	6158.8	6127.2
32.5°	6646.8	6719.1	7143.9	7451.1	7505.3	7347.2	7121.3	6908.9	6728.2	6655.9
35°	6863.7	7049.0	7527.9	7808.1	7952.7	7857.8	7731.3	7509.9	7320.1	7256.8
37.5°	7175.5	7433.1	7893.9	8273.5	8436.2	8427.1	8332.2	8092.8	7934.6	7880.4
40°	7622.8	7880.4	8300.6	8802.2	9104.9	9091.4	9037.1	8851.9	8616.9	8589.8
42.5°	8097.3	8309.7	8856.4	9430.3	9864.0	9818.9	9674.3	9457.4	9294.7	9258.6
45°	8558.2	8888.0	9394.1	10130.6	10456.0	10568.9	10397.2	10026.7	9841.5	9818.9
47.5°	9136.6	9398.6	10031.2	10690.9	11174.4	11192.5	10898.8	10555.4	10216.5	10288.8
50°	9651.7	9999.6	10641.2	11364.2	11942.6	11734.7	11359.7	10930.4	10686.4	10591.5
52.5°	10202.9	10627.7	11373.2	12109.8	12430.6	12222.7	11612.7	11133.8	10763.2	10722.6
55°	11007.2	11228.7	12204.7	12769.5	12873.4	12435.1	11535.9	10858.1	10379.2	10261.7
57.5°	11825.1	12082.7	12936.7	13424.7	13316.2	12317.6	11038.9	9990.6	9362.5	9195.3
60°	12652.0	12968.3	13686.8	14134.1	13573.8	11508.8	9633.6	8282.5	7550.5	7401.4
62.5°	13573.8	13985.0	14626.6	14784.8	12810.2	9909.2	7645.4	5978.1	5237.0	4988.5
65°	14391.7	14811.9	15602.6	14649.2	11188.0	7392.4	4943.3	3416.0	2869.3	2670.5
67.5°	15064.9	15539.4	15928.0	12963.8	8192.2	4328.8	2575.6	1798.4	1595.1	1522.8
70°	15598.1	16388.9	14572.4	9529.7	4681.2	2110.2	1391.7	1183.9	1156.8	1138.7
72.5°	15132.7	15028.8	10880.7	5499.1	2051.4	1161.3	1007.6	976.0	971.5	976.0
75°	12376.4	11038.9	6506.7	2390.3	1030.2	840.5	835.9	822.4	845.0	845.0
77.5°	6005.2	5250.6	2720.2	1025.7	677.8	659.7	682.3	682.3	682.3	682.3
80°	1391.7	1540.8	971.5	623.6	492.5	492.5	542.2	546.7	524.2	515.1
82.5°	474.5	632.6	533.2	393.1	325.3	366.0	411.2	420.2	347.9	352.4
85°	235.0	370.5	289.2	225.9	167.2	225.9	266.6	280.2	239.5	230.4
87.5°	108.4	162.7	108.4	76.8	58.7	81.3	76.8	63.3	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)