

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: P481294

Luminaire Tested: **IFLD-S-SA6D-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481294
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

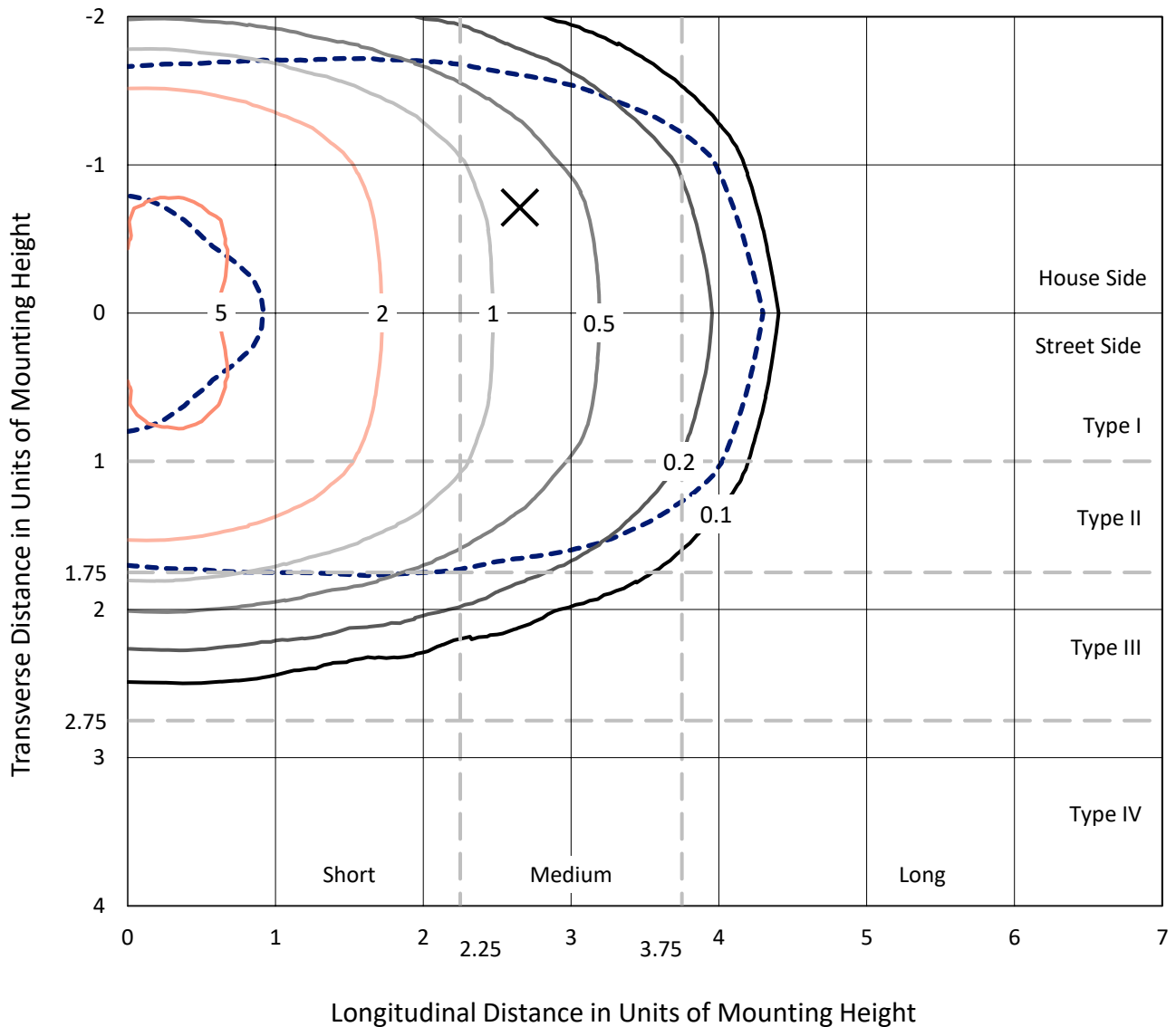
Lumens per Lamp: N/A
Luminaire Lumens: 47094.8 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368.2
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

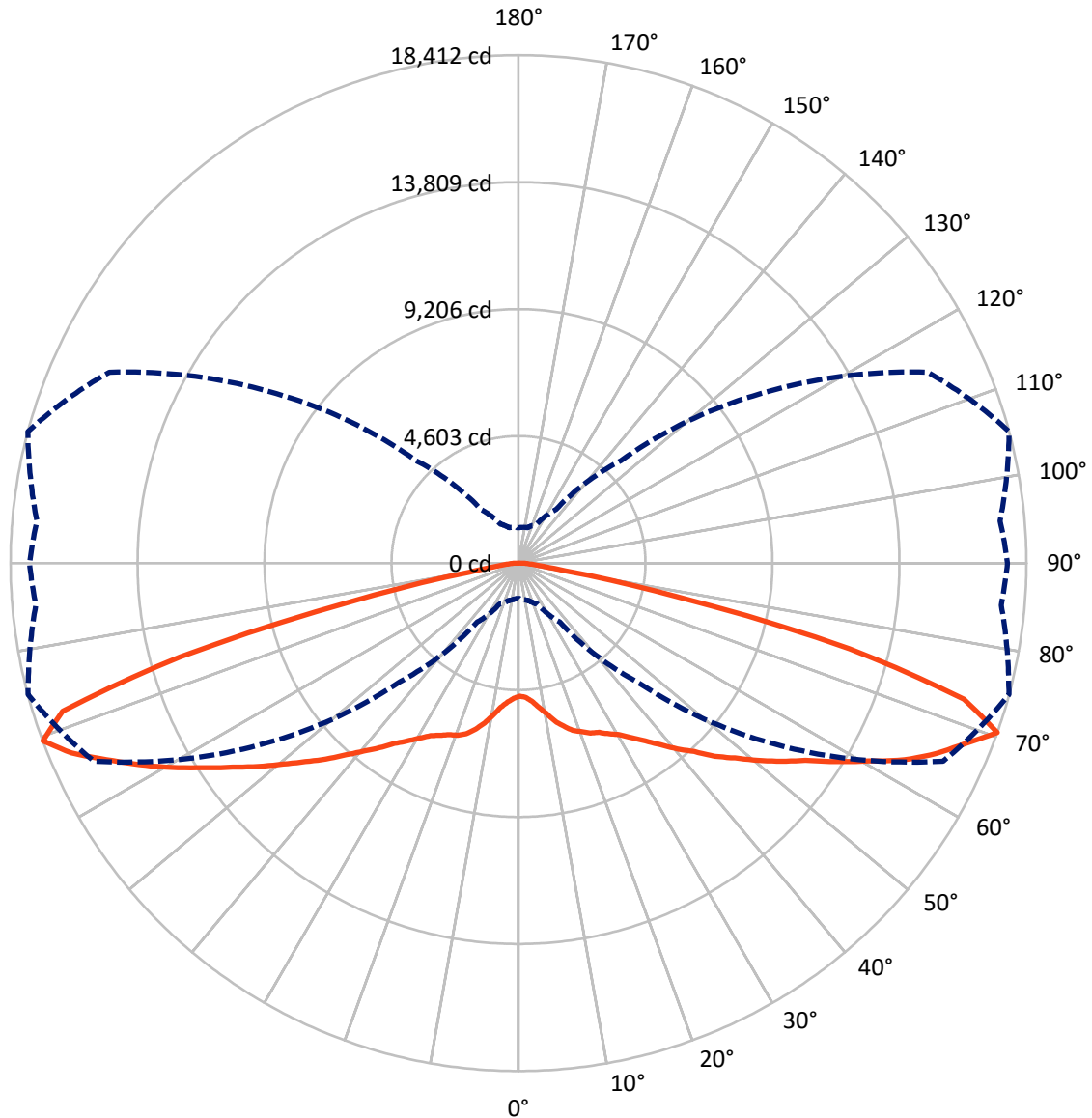
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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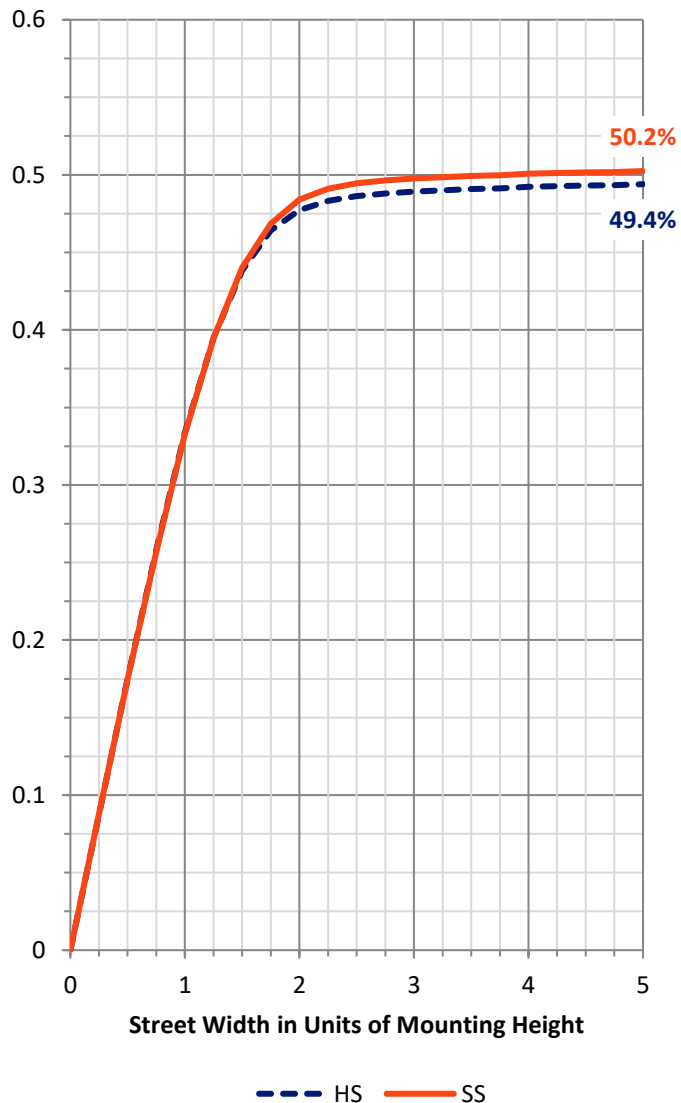
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23379.8	0.0	23379.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	23714.9	0.0	23714.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	47094.8	0.0	47094.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.0	1.0
10°-20°	1634.3	3.5
20°-30°	3164.6	6.7
30°-40°	5352.7	11.4
40°-50°	8539.2	18.1
50°-60°	11688.3	24.8
60°-70°	11017.0	23.4
70°-80°	4853.3	10.3
80°-90°	365.2	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°	47094.8	100.0
0°-180°	47094.8	100.0

Coefficient of Utilization



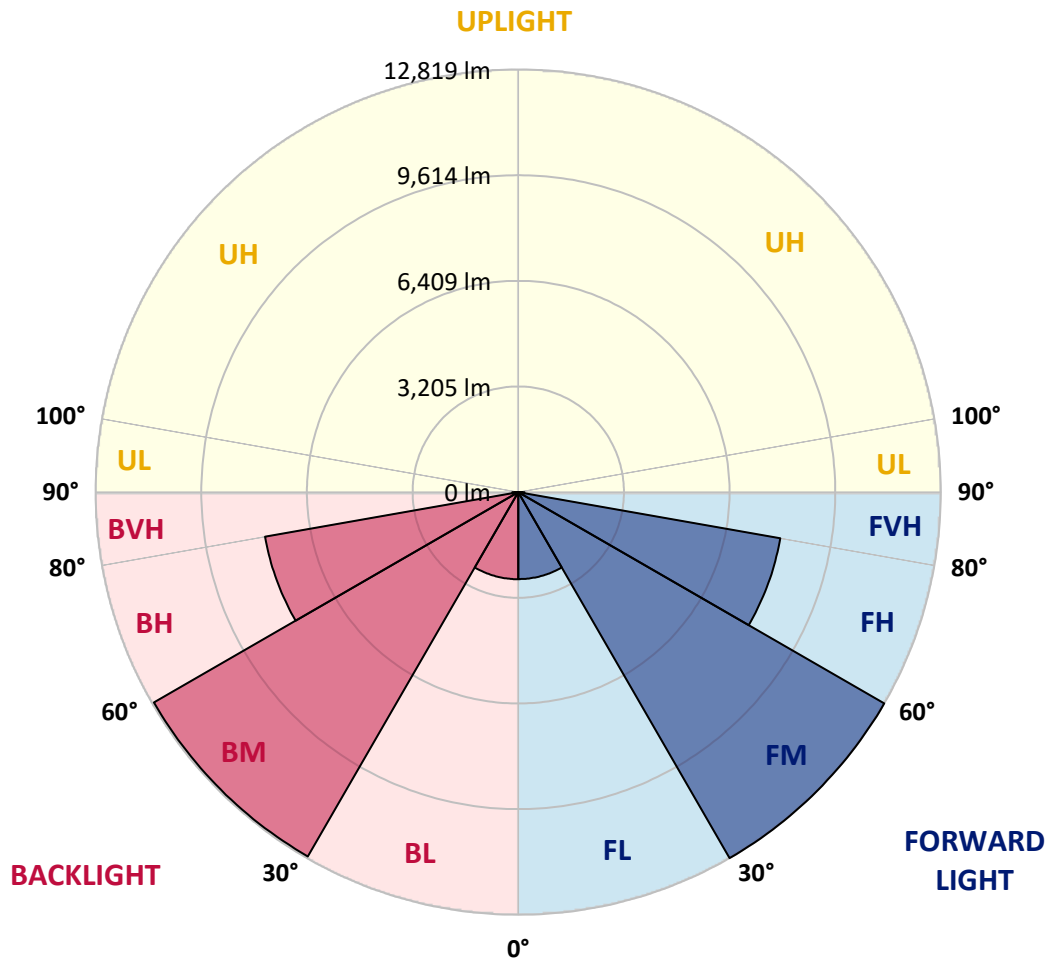
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2638.1	5.6			
FM (30°-60°)	12818.8	27.2			
FH (60°-80°)	8071.5	17.1			G4/12000
FVH (80°-90°)	186.5	0.4			G2/225
BL (0°-30°)	2640.9	5.6	B4/5000		
BM (30°-60°)	12761.5	27.1	B5		
BH (60°-80°)	7798.8	16.6	B5		G5
BVH (80°-90°)	178.6	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°	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5
2.5°	4792.0	4792.0	4786.9	4812.3	4837.7	4847.8	4868.1	4873.2	4903.7	4878.3	4929.1
5°	4776.8	4771.7	4812.3	4873.2	4873.2	4939.2	4979.8	5035.7	5050.9	5081.3	5091.5
7.5°	4883.4	4873.2	4852.9	4918.9	4974.7	5076.3	5132.1	5228.6	5264.1	5304.7	5350.4
10°	4949.4	4949.4	4929.1	5045.8	5096.6	5233.6	5355.5	5451.9	5589.0	5634.7	5639.7
12.5°	4959.5	4974.7	5035.7	5187.9	5330.1	5507.8	5599.1	5781.9	5918.9	6005.2	6035.7
15°	5111.8	5081.3	5147.3	5355.5	5563.6	5721.0	5883.4	6015.4	6213.4	6325.0	6396.1
17.5°	5248.9	5218.4	5340.2	5589.0	5802.2	6045.8	6188.0	6330.1	6472.2	6573.8	6578.8
20°	5467.1	5492.5	5599.1	5868.2	6147.4	6360.6	6523.0	6548.4	6619.5	6766.7	6741.3
22.5°	5736.2	5715.9	5939.2	6233.7	6538.2	6715.9	6807.3	6741.3	6705.8	6863.1	6898.6
25°	6005.2	6066.1	6269.2	6543.3	6908.8	7147.4	7172.8	6990.0	6858.0	6913.9	6898.6
27.5°	6416.4	6426.6	6639.8	6964.6	7335.2	7543.3	7528.1	7269.2	7015.4	7020.5	7030.6
30°	6944.3	6893.6	7127.1	7421.5	7787.0	7974.8	8000.2	7629.6	7289.5	7188.0	7213.4
32.5°	7452.0	7512.9	7715.9	8051.0	8320.0	8426.6	8370.8	8040.8	7599.2	7462.1	7477.3
35°	8101.7	8091.6	8370.8	8655.0	8858.1	8878.4	8832.7	8350.5	7934.2	7756.5	7685.5
37.5°	8797.2	8888.5	9071.3	9304.8	9518.0	9528.2	9279.4	8893.6	8380.9	8086.5	8172.8
40°	9573.8	9675.4	9807.4	10147.5	10304.8	10142.4	9888.6	9365.7	8832.7	8573.8	8614.4
42.5°	10259.1	10304.8	10573.9	10974.9	11051.0	10980.0	10604.3	9969.8	9350.5	9066.2	9086.5
45°	10888.6	10949.5	11299.8	11660.2	11837.9	11716.0	11279.5	10675.4	9954.6	9710.9	9614.5
47.5°	11467.3	11589.1	11929.2	12299.8	12573.9	12584.1	12046.0	11315.0	10553.6	10233.8	10228.7
50°	11858.2	12035.8	12370.9	12792.2	13193.2	13350.6	12812.5	12025.7	11208.4	10868.3	10832.8
52.5°	12071.4	12254.1	12589.1	13244.0	13690.7	13934.4	13680.5	12690.7	11974.9	11619.6	11563.7
55°	11812.5	11934.3	12482.5	13401.3	14091.7	14492.7	14325.2	13609.5	12736.4	12447.0	12497.8
57.5°	10710.9	10964.7	11639.9	12787.1	14081.6	15066.4	15051.1	14477.5	13614.6	13340.4	13350.6
60°	8817.5	9030.7	9863.2	11467.3	13513.0	15299.9	15838.0	15320.2	14599.3	14279.5	14269.4
62.5°	6223.5	6492.5	7457.0	9208.4	11837.9	14975.0	16741.5	16381.1	15563.8	15330.3	15416.6
65°	3482.3	3644.8	4538.2	6122.0	9020.5	13188.1	16904.0	17482.7	16543.6	16188.2	16203.4
67.5°	1863.0	1923.9	2340.2	3213.3	5517.9	10167.8	15264.3	18117.2	17604.5	16990.3	16893.8
70°	1279.2	1299.5	1406.1	1644.7	2609.2	6081.4	11513.0	16985.2	18401.5	17563.9	17726.3
72.5°	1081.2	1071.1	1096.5	1121.9	1365.5	2720.9	6756.5	13071.4	17371.0	17056.3	16995.3
75°	939.1	934.0	944.2	918.8	949.3	1198.0	2989.9	8147.4	12716.1	14193.2	14421.7
77.5°	776.7	781.7	786.8	761.4	751.3	791.9	1203.1	3578.8	6259.0	6908.8	7452.0
80°	588.8	599.0	639.6	614.2	573.6	578.7	710.7	1198.0	1797.0	1629.5	1680.2
82.5°	401.0	406.1	492.4	461.9	431.5	390.9	456.9	619.3	700.5	533.0	467.0
85°	284.3	279.2	319.8	294.4	274.1	198.0	274.1	350.3	421.3	264.0	238.6
87.5°	66.0	66.0	132.0	106.6	101.5	81.2	106.6	137.1	182.7	116.8	106.6
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°	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5
2.5°	4913.8	4868.1	4868.1	4858.0	4817.4	4807.2	4771.7	4781.8	4756.5	4731.1
5°	5086.4	5025.5	5025.5	4939.2	4858.0	4847.8	4807.2	4807.2	4766.6	4776.8
7.5°	5325.0	5269.2	5177.8	5101.6	4990.0	4944.3	4868.1	4858.0	4847.8	4827.5
10°	5609.3	5538.2	5446.8	5289.5	5198.1	5111.8	5035.7	4929.1	4903.7	4908.8
12.5°	5995.1	5883.4	5685.4	5548.4	5431.6	5319.9	5208.3	5050.9	5015.4	5030.6
15°	6269.2	6127.1	5929.1	5878.3	5721.0	5583.9	5401.1	5223.5	5162.6	5147.3
17.5°	6492.5	6375.8	6259.0	6182.9	6056.0	5888.5	5634.7	5431.6	5294.5	5279.3
20°	6675.3	6523.0	6497.6	6543.3	6385.9	6274.3	5964.6	5715.9	5533.1	5457.0
22.5°	6787.0	6690.5	6761.6	6802.2	6792.0	6604.2	6284.4	5995.1	5766.6	5695.6
25°	6908.8	6797.1	7050.9	7188.0	7223.5	6913.9	6665.1	6284.4	6061.1	6015.4
27.5°	6969.7	7010.3	7304.8	7594.1	7568.7	7330.1	6995.1	6655.0	6477.3	6396.1
30°	7147.4	7213.4	7660.1	7985.0	7990.0	7756.5	7502.7	7116.9	6919.0	6883.4
32.5°	7467.2	7548.4	8025.6	8370.8	8431.7	8254.0	8000.2	7761.6	7558.6	7477.3
35°	7710.9	7919.0	8457.1	8771.8	8934.2	8827.6	8685.5	8436.8	8223.6	8152.5
37.5°	8061.1	8350.5	8868.2	9294.6	9477.4	9467.2	9360.6	9091.6	8913.9	8853.0
40°	8563.7	8853.0	9325.1	9888.6	10228.7	10213.5	10152.5	9944.4	9680.4	9650.0
42.5°	9096.7	9335.3	9949.5	10594.2	11081.5	11030.7	10868.3	10624.6	10441.9	10401.3
45°	9614.5	9985.0	10553.6	11381.0	11746.5	11873.4	11680.5	11264.2	11056.1	11030.7
47.5°	10264.2	10558.6	11269.3	12010.5	12553.6	12573.9	12244.0	11858.2	11477.4	11558.7
50°	10842.9	11233.8	11954.6	12766.8	13416.6	13183.1	12761.7	12279.5	12005.4	11898.8
52.5°	11462.2	11939.4	12777.0	13604.4	13964.8	13731.3	13046.0	12507.9	12091.7	12046.0
55°	12365.8	12614.5	13711.0	14345.5	14462.3	13969.9	12959.7	12198.3	11660.2	11528.2
57.5°	13284.6	13573.9	14533.4	15081.6	14959.8	13837.9	12401.3	11223.6	10518.0	10330.2
60°	14213.6	14568.9	15376.0	15878.6	15249.1	12929.3	10822.6	9304.8	8482.4	8314.9
62.5°	15249.1	15711.1	16431.9	16609.6	14391.2	11132.3	8589.0	6715.9	5883.4	5604.2
65°	16167.9	16640.0	17528.4	16457.3	12568.8	8304.8	5553.4	3837.7	3223.4	3000.1
67.5°	16924.3	17457.3	17893.8	14563.8	9203.3	4863.1	2893.5	2020.4	1791.9	1710.7
70°	17523.3	18411.6	16371.0	10705.9	5259.0	2370.6	1563.5	1330.0	1299.5	1279.2
72.5°	17000.4	16883.7	12223.7	6177.8	2304.6	1304.6	1132.0	1096.5	1091.4	1096.5
75°	13903.9	12401.3	7309.8	2685.3	1157.4	944.2	939.1	923.9	949.3	949.3
77.5°	6746.4	5898.6	3055.9	1152.3	761.4	741.1	766.5	766.5	766.5	766.5
80°	1563.5	1731.0	1091.4	700.5	553.3	553.3	609.2	614.2	588.8	578.7
82.5°	533.0	710.7	599.0	441.6	365.5	411.2	461.9	472.1	390.9	395.9
85°	264.0	416.3	324.9	253.8	187.8	253.8	299.5	314.7	269.0	258.9
87.5°	121.8	182.7	121.8	86.3	66.0	91.4	86.3	71.1	40.6	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)