

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: P481333

Luminaire Tested: **IFLD-S-SA6D-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481333
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

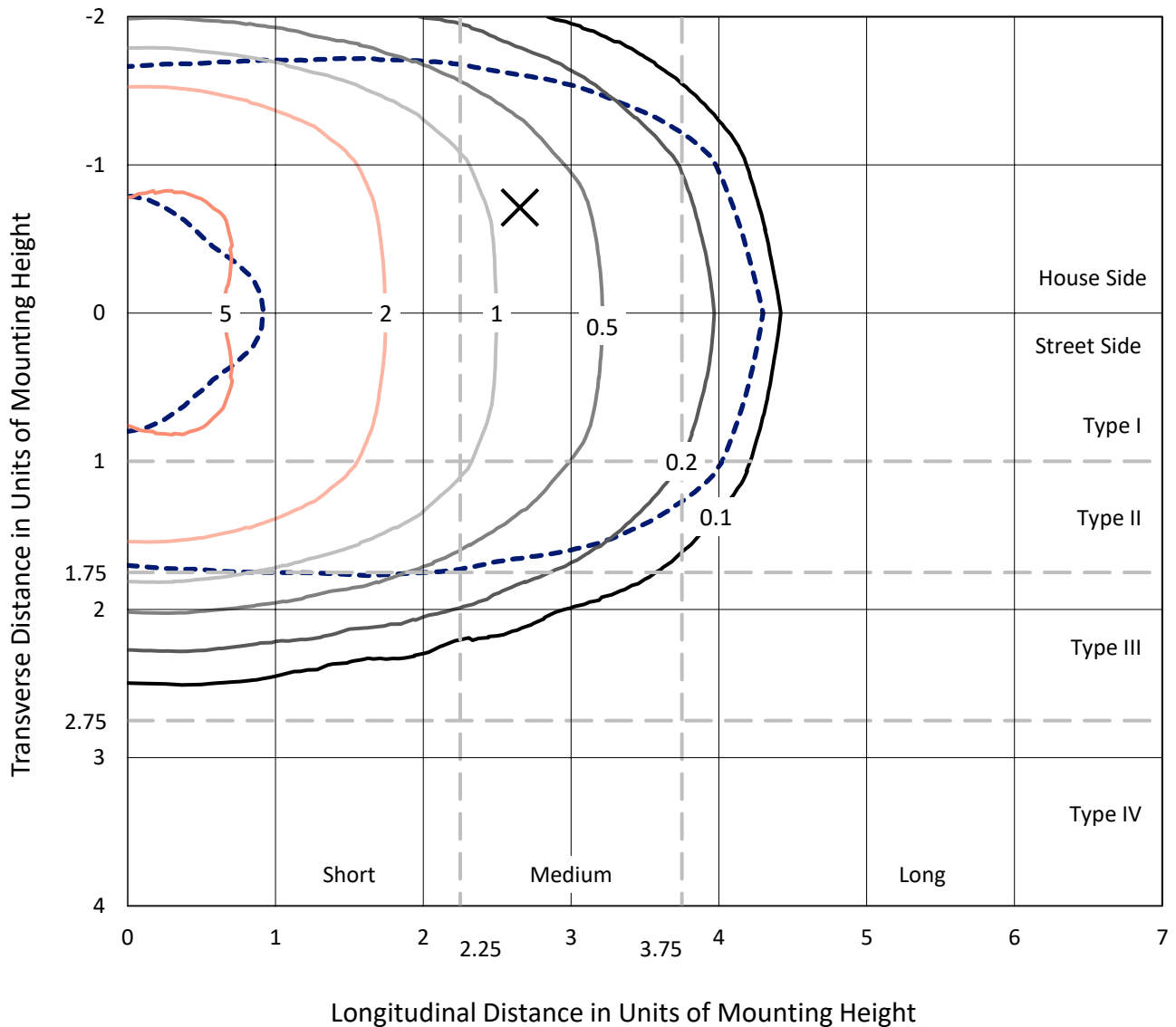
Lumens per Lamp: N/A
Luminaire Lumens: 48173.2 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

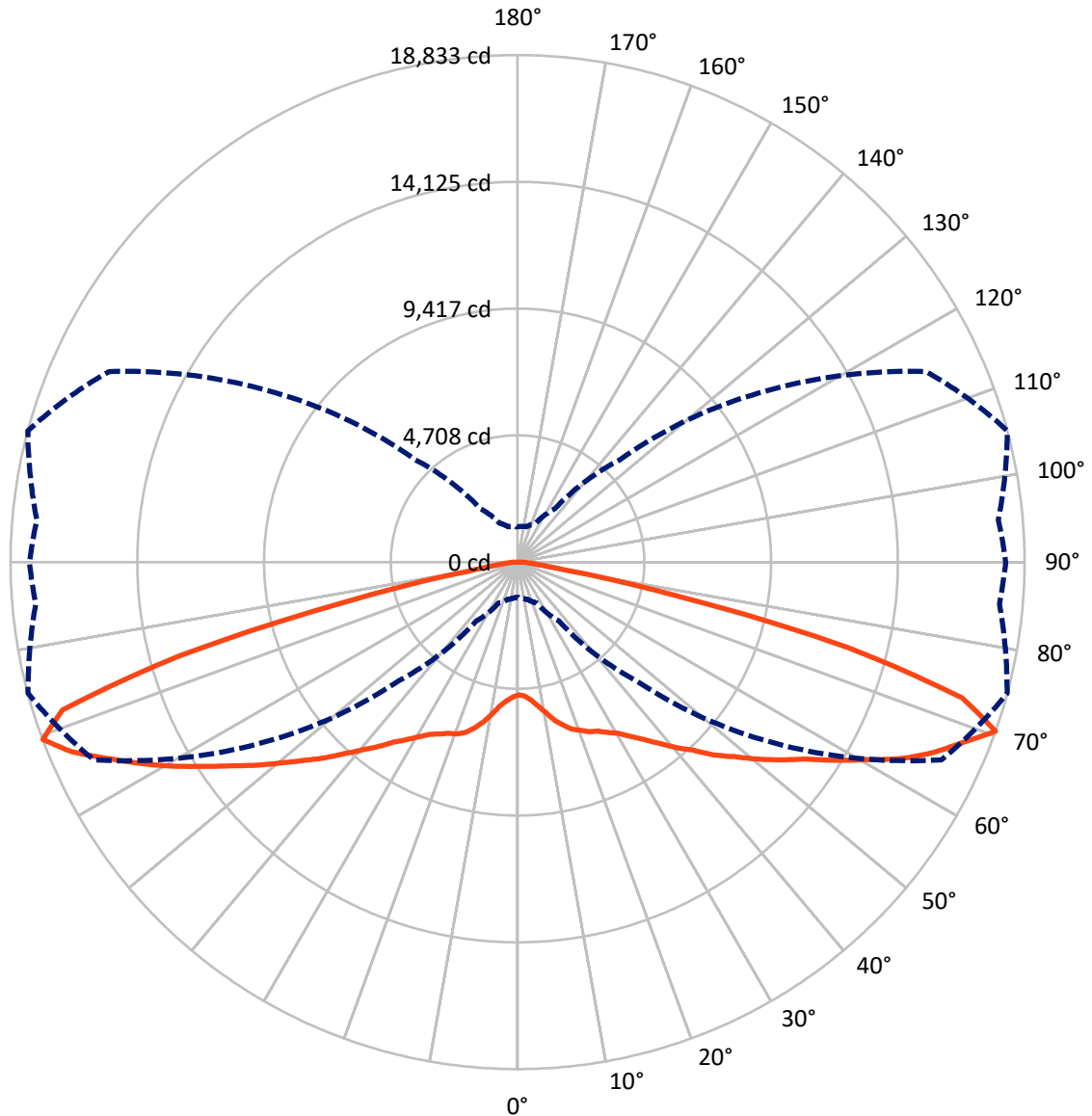
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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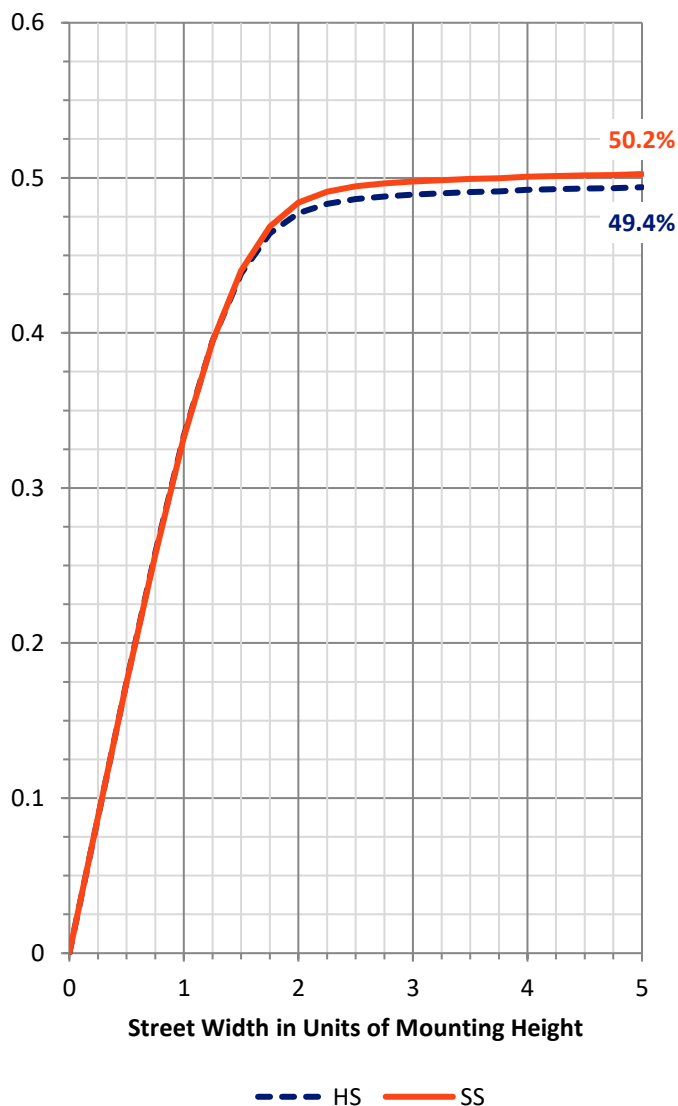
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23915.2	0.0	23915.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	24258.0	0.0	24258.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	48173.2	0.0	48173.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.0	1.0
10°-20°	1671.8	3.5
20°-30°	3237.1	6.7
30°-40°	5475.3	11.4
40°-50°	8734.8	18.1
50°-60°	11956.0	24.8
60°-70°	11269.3	23.4
70°-80°	4964.5	10.3
80°-90°	373.5	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°	48173.2	100.0
0°-180°	48173.2	100.0

Coefficient of Utilization

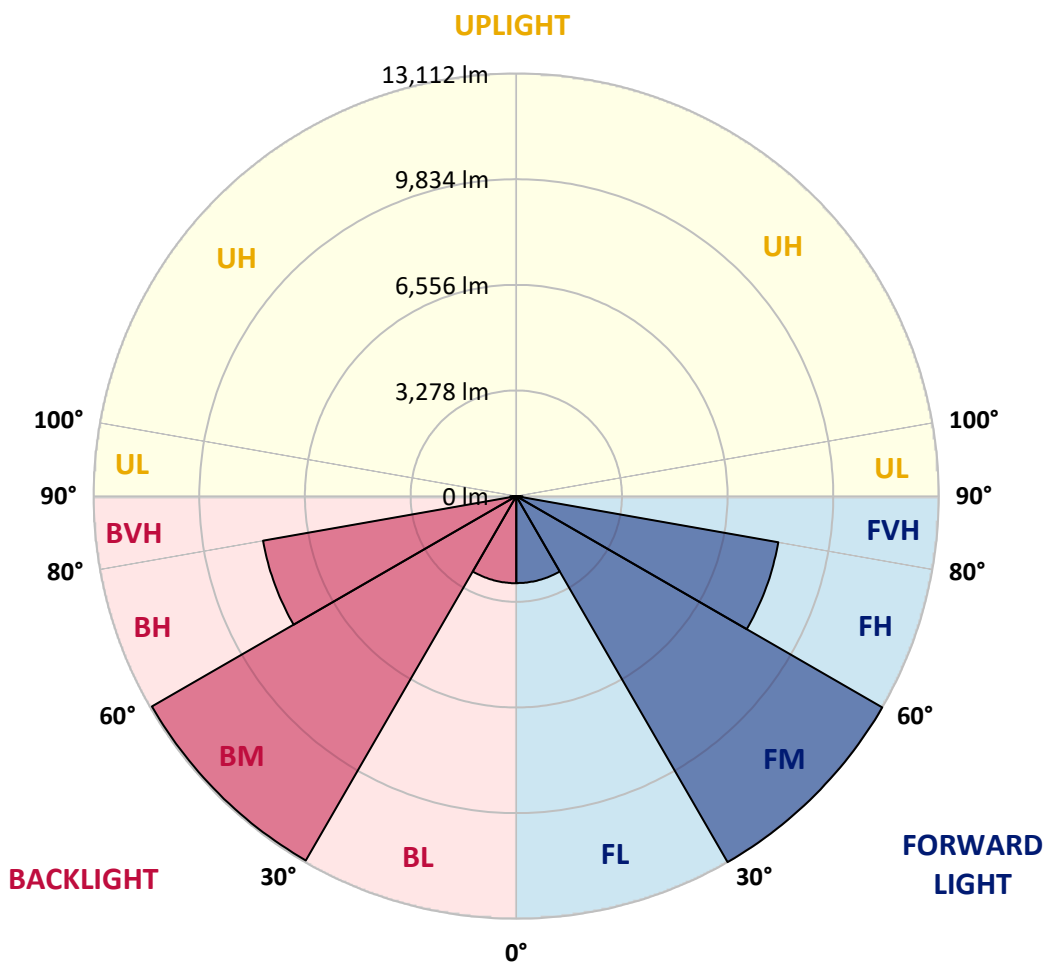


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2698.5	5.6			
FM (30°-60°)	13112.3	27.2			
FH (60°-80°)	8256.4	17.1			G4/12000
FVH (80°-90°)	190.8	0.4			G2/225
BL (0°-30°)	2701.4	5.6	B4/5000		
BM (30°-60°)	13053.7	27.1	B5		
BH (60°-80°)	7977.4	16.6	B5		G5
BVH (80°-90°)	182.7	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°	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9
2.5°	4901.7	4901.7	4896.5	4922.5	4948.5	4958.9	4979.6	4984.8	5016.0	4990.0	5041.9
5°	4886.2	4881.0	4922.5	4984.8	4984.8	5052.3	5093.9	5151.0	5166.6	5197.7	5208.1
7.5°	4995.2	4984.8	4964.0	5031.5	5088.7	5192.5	5249.6	5348.3	5384.6	5426.2	5472.9
10°	5062.7	5062.7	5041.9	5161.4	5213.3	5353.5	5478.1	5576.8	5717.0	5763.7	5768.9
12.5°	5073.1	5088.7	5151.0	5306.8	5452.1	5633.9	5727.3	5914.3	6054.5	6142.7	6173.9
15°	5228.9	5197.7	5265.2	5478.1	5691.0	5852.0	6018.1	6153.1	6355.6	6469.9	6542.6
17.5°	5369.1	5337.9	5462.5	5717.0	5935.0	6184.3	6329.7	6475.1	6620.5	6724.3	6729.5
20°	5592.3	5618.3	5727.3	6002.5	6288.1	6506.2	6672.4	6698.3	6771.0	6921.6	6895.7
22.5°	5867.5	5846.8	6075.2	6376.4	6688.0	6869.7	6963.2	6895.7	6859.3	7020.3	7056.6
25°	6142.7	6205.1	6412.8	6693.2	7067.0	7311.1	7337.0	7150.1	7015.1	7072.2	7056.6
27.5°	6563.3	6573.7	6791.8	7124.1	7503.2	7716.1	7700.5	7435.7	7176.1	7181.2	7191.6
30°	7103.4	7051.4	7290.3	7591.5	7965.3	8157.4	8183.4	7804.4	7456.5	7352.6	7378.6
32.5°	7622.6	7684.9	7892.6	8235.3	8510.5	8619.6	8562.5	8224.9	7773.2	7633.0	7648.6
35°	8287.3	8276.9	8562.5	8853.2	9060.9	9081.7	9035.0	8541.7	8115.9	7934.2	7861.5
37.5°	8998.6	9092.1	9279.0	9517.9	9736.0	9746.4	9491.9	9097.3	8572.8	8271.7	8359.9
40°	9793.1	9896.9	10031.9	10379.8	10540.8	10374.6	10115.0	9580.2	9035.0	8770.2	8811.7
42.5°	10494.1	10540.8	10816.0	11226.2	11304.1	11231.4	10847.2	10198.1	9564.6	9273.8	9294.6
45°	11137.9	11200.3	11558.5	11927.2	12108.9	11984.3	11537.8	10919.9	10182.5	9933.3	9834.6
47.5°	11729.9	11854.5	12202.4	12581.5	12861.9	12872.2	12321.8	11574.1	10795.2	10468.1	10462.9
50°	12129.7	12311.5	12654.2	13085.1	13495.3	13656.3	13105.9	12301.1	11465.1	11117.2	11080.8
52.5°	12347.8	12534.7	12877.4	13547.3	14004.2	14253.5	13993.8	12981.3	12249.1	11885.7	11828.5
55°	12083.0	12207.6	12768.4	13708.2	14414.4	14824.6	14653.3	13921.1	13028.0	12732.0	12784.0
57.5°	10956.2	11215.8	11906.4	13079.9	14404.0	15411.4	15395.8	14809.1	13926.3	13645.9	13656.3
60°	9019.4	9237.5	10089.1	11729.9	13822.5	15650.2	16200.6	15671.0	14933.7	14606.5	14596.2
62.5°	6366.0	6641.2	7627.8	9419.2	12108.9	15317.9	17124.9	16756.2	15920.3	15681.4	15769.7
65°	3562.1	3728.2	4642.1	6262.2	9227.1	13490.2	17291.1	17883.0	16922.4	16558.9	16574.5
67.5°	1905.7	1968.0	2393.7	3286.9	5644.3	10400.6	15613.9	18532.1	18007.6	17379.3	17280.7
70°	1308.5	1329.3	1438.3	1682.4	2669.0	6220.6	11776.6	17374.2	18822.9	17966.1	18132.3
72.5°	1106.0	1095.6	1121.6	1147.5	1396.8	2783.2	6911.2	13370.7	17768.8	17446.9	17384.5
75°	960.6	955.4	965.8	939.8	971.0	1225.4	3058.4	8334.0	13007.3	14518.3	14751.9
77.5°	794.5	799.6	804.8	778.9	768.5	810.0	1230.6	3660.7	6402.4	7067.0	7622.6
80°	602.3	612.7	654.3	628.3	586.8	591.9	727.0	1225.4	1838.2	1666.8	1718.7
82.5°	410.2	415.4	503.7	472.5	441.4	399.8	467.3	633.5	716.6	545.2	477.7
85°	290.8	285.6	327.1	301.2	280.4	202.5	280.4	358.3	431.0	270.0	244.0
87.5°	67.5	67.5	135.0	109.0	103.9	83.1	109.0	140.2	186.9	119.4	109.0
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°	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9	4932.9
2.5°	5026.4	4979.6	4979.6	4969.2	4927.7	4917.3	4881.0	4891.3	4865.4	4839.4
5°	5202.9	5140.6	5140.6	5052.3	4969.2	4958.9	4917.3	4917.3	4875.8	4886.2
7.5°	5446.9	5389.8	5296.4	5218.5	5104.2	5057.5	4979.6	4969.2	4958.9	4938.1
10°	5737.7	5665.0	5571.6	5410.6	5317.1	5228.9	5151.0	5041.9	5016.0	5021.2
12.5°	6132.4	6018.1	5815.6	5675.4	5556.0	5441.8	5327.5	5166.6	5130.2	5145.8
15°	6412.8	6267.4	6064.9	6012.9	5852.0	5711.8	5524.8	5343.1	5280.8	5265.2
17.5°	6641.2	6521.8	6402.4	6324.5	6194.7	6023.3	5763.7	5556.0	5415.8	5400.2
20°	6828.2	6672.4	6646.4	6693.2	6532.2	6417.9	6101.2	5846.8	5659.8	5582.0
22.5°	6942.4	6843.7	6916.4	6958.0	6947.6	6755.5	6428.3	6132.4	5898.7	5826.0
25°	7067.0	6952.8	7212.4	7352.6	7388.9	7072.2	6817.8	6428.3	6199.9	6153.1
27.5°	7129.3	7170.9	7472.0	7768.0	7742.0	7498.0	7155.3	6807.4	6625.6	6542.6
30°	7311.1	7378.6	7835.5	8167.8	8173.0	7934.2	7674.5	7279.9	7077.4	7041.1
32.5°	7638.2	7721.3	8209.4	8562.5	8624.8	8443.0	8183.4	7939.4	7731.7	7648.6
35°	7887.4	8100.3	8650.7	8972.7	9138.8	9029.8	8884.4	8630.0	8411.9	8339.2
37.5°	8245.7	8541.7	9071.3	9507.5	9694.4	9684.0	9575.0	9299.8	9118.1	9055.7
40°	8759.8	9055.7	9538.7	10115.0	10462.9	10447.3	10385.0	10172.1	9902.1	9871.0
42.5°	9305.0	9549.0	10177.3	10836.8	11335.3	11283.3	11117.2	10867.9	10681.0	10639.5
45°	9834.6	10213.7	10795.2	11641.6	12015.5	12145.3	11948.0	11522.2	11309.3	11283.3
47.5°	10499.3	10800.4	11527.4	12285.5	12841.1	12861.9	12524.3	12129.7	11740.3	11823.4
50°	11091.2	11491.0	12228.4	13059.2	13723.8	13485.0	13054.0	12560.7	12280.3	12171.3
52.5°	11724.7	12212.8	13069.6	13915.9	14284.6	14045.8	13344.8	12794.4	12368.6	12321.8
55°	12649.0	12903.4	14025.0	14674.0	14793.5	14289.8	13256.5	12477.6	11927.2	11792.2
57.5°	13588.8	13884.8	14866.2	15427.0	15302.3	14154.8	12685.3	11480.7	10758.9	10566.8
60°	14539.0	14902.5	15728.1	16242.2	15598.3	13225.3	11070.4	9517.9	8676.7	8505.3
62.5°	15598.3	16070.8	16808.2	16989.9	14720.8	11387.2	8785.7	6869.7	6018.1	5732.5
65°	16538.2	17021.1	17929.8	16834.1	12856.7	8495.0	5680.6	3925.5	3297.2	3068.8
67.5°	17311.8	17857.1	18303.6	14897.3	9414.0	4974.4	2959.7	2066.6	1833.0	1749.9
70°	17924.6	18833.3	16745.9	10951.0	5379.4	2424.9	1599.3	1360.4	1329.3	1308.5
72.5°	17389.7	17270.3	12503.6	6319.3	2357.4	1334.5	1157.9	1121.6	1116.4	1121.6
75°	14222.3	12685.3	7477.2	2746.8	1183.9	965.8	960.6	945.0	971.0	971.0
77.5°	6900.9	6033.7	3125.9	1178.7	778.9	758.1	784.1	784.1	784.1	784.1
80°	1599.3	1770.6	1116.4	716.6	566.0	566.0	623.1	628.3	602.3	591.9
82.5°	545.2	727.0	612.7	451.7	373.9	420.6	472.5	482.9	399.8	405.0
85°	270.0	425.8	332.3	259.6	192.1	259.6	306.4	321.9	275.2	264.8
87.5°	124.6	186.9	124.6	88.3	67.5	93.5	88.3	72.7	41.5	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)