

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: P481450

Luminaire Tested: **IFLD-S-SA6D-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481450
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

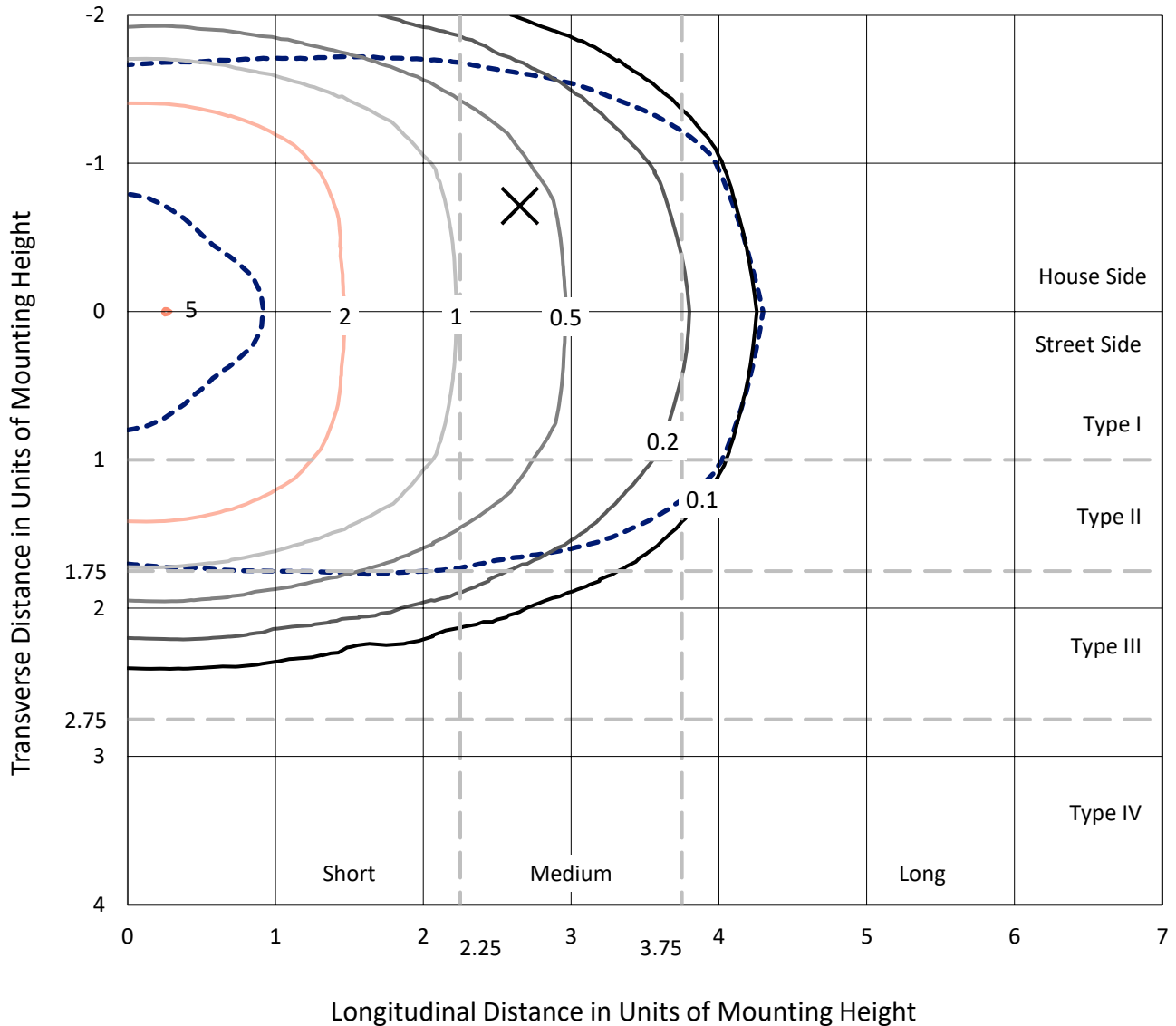
Lumens per Lamp: N/A
Luminaire Lumens: 37421.5 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

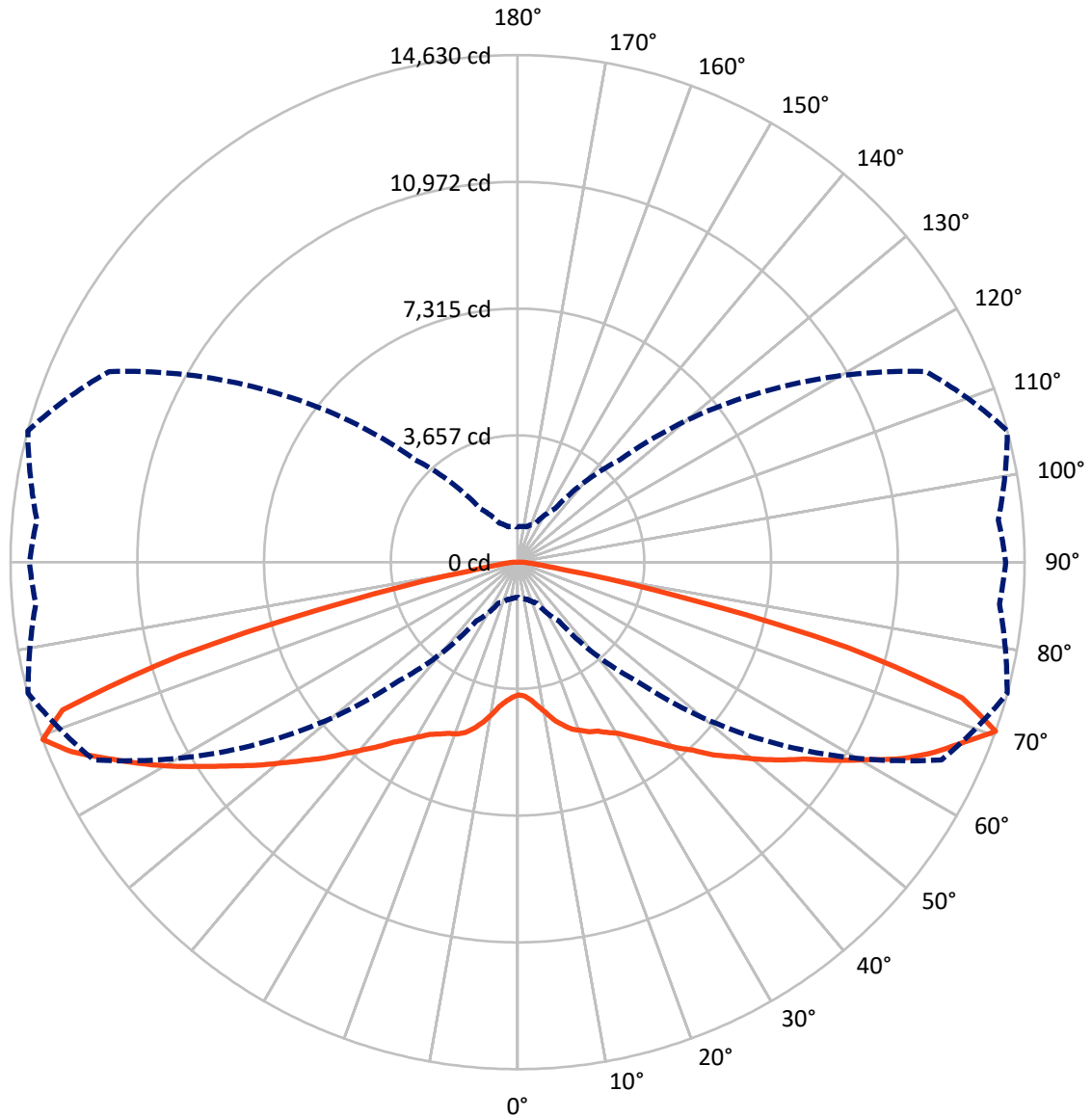
× Max cd
 - - - 1/2 Max cd



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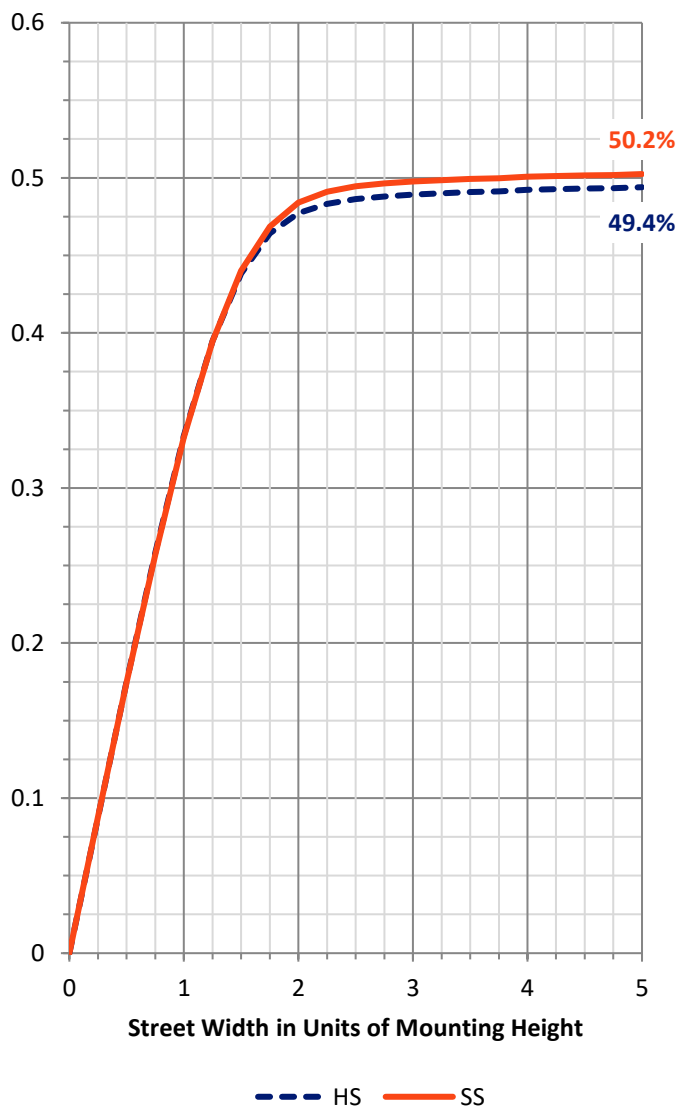
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18577.6	0.0	18577.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18843.9	0.0	18843.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	37421.5	0.0	37421.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.4	1.0
10°-20°	1298.7	3.5
20°-30°	2514.6	6.7
30°-40°	4253.3	11.4
40°-50°	6785.3	18.1
50°-60°	9287.5	24.8
60°-70°	8754.1	23.4
70°-80°	3856.4	10.3
80°-90°	290.2	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°	37421.5	100.0
0°-180°	37421.5	100.0

Coefficient of Utilization



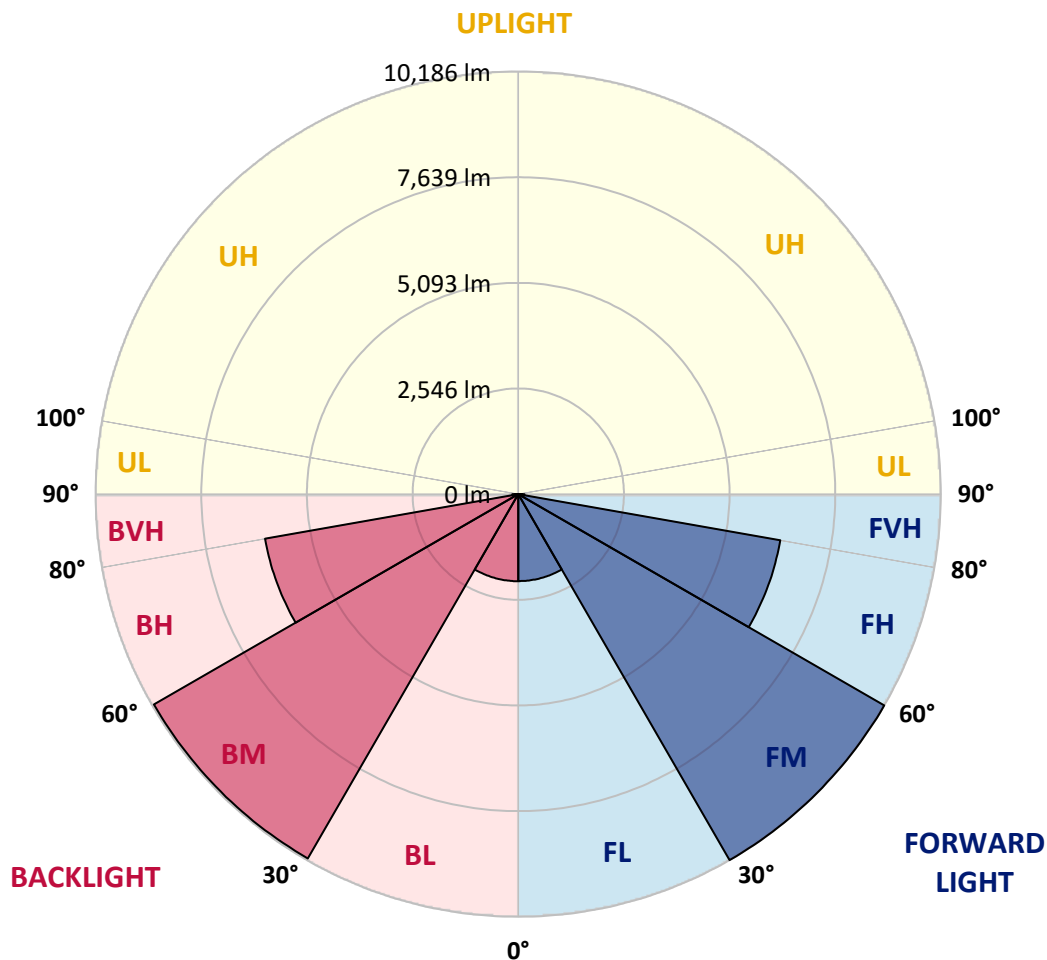
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.2	5.6			
FM (30°-60°)	10185.8	27.2			
FH (60°-80°)	6413.6	17.1			G3/7500
FVH (80°-90°)	148.2	0.4			G2/225
BL (0°-30°)	2098.5	5.6	B3/2500		
BM (30°-60°)	10140.3	27.1	B5		
BH (60°-80°)	6196.9	16.6	B5		G5
BVH (80°-90°)	141.9	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°	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9
2.5°	3807.7	3807.7	3803.7	3823.9	3844.0	3852.1	3868.2	3872.3	3896.5	3876.3	3916.6
5°	3795.6	3791.6	3823.9	3872.3	3872.3	3924.7	3957.0	4001.3	4013.4	4037.6	4045.7
7.5°	3880.3	3872.3	3856.1	3908.6	3952.9	4033.6	4078.0	4154.6	4182.8	4215.1	4251.4
10°	3932.8	3932.8	3916.6	4009.4	4049.7	4158.6	4255.5	4332.1	4441.0	4477.3	4481.3
12.5°	3940.8	3952.9	4001.3	4122.3	4235.3	4376.5	4449.1	4594.3	4703.2	4771.8	4796.0
15°	4061.8	4037.6	4090.1	4255.5	4420.8	4545.9	4674.9	4779.8	4937.1	5025.9	5082.3
17.5°	4170.7	4146.5	4243.4	4441.0	4610.4	4804.0	4917.0	5029.9	5142.8	5223.5	5227.5
20°	4344.2	4364.4	4449.1	4662.8	4884.7	5054.1	5183.2	5203.3	5259.8	5376.8	5356.6
22.5°	4558.0	4541.8	4719.3	4953.3	5195.3	5336.5	5409.1	5356.6	5328.4	5453.4	5481.7
25°	4771.8	4820.2	4981.5	5199.3	5489.7	5679.3	5699.5	5554.3	5449.4	5493.8	5481.7
27.5°	5098.5	5106.5	5276.0	5534.1	5828.6	5993.9	5981.8	5776.1	5574.4	5578.5	5586.5
30°	5518.0	5477.6	5663.2	5897.1	6187.5	6336.8	6357.0	6062.5	5792.3	5711.6	5731.7
32.5°	5921.3	5969.7	6131.1	6397.3	6611.1	6695.8	6651.4	6389.2	6038.3	5929.4	5941.5
35°	6437.6	6429.6	6651.4	6877.3	7038.6	7054.8	7018.5	6635.3	6304.5	6163.3	6106.9
37.5°	6990.2	7062.8	7208.0	7393.6	7563.0	7571.1	7373.4	7066.9	6659.5	6425.5	6494.1
40°	7607.4	7688.0	7792.9	8063.2	8188.2	8059.1	7857.5	7442.0	7018.5	6812.8	6845.0
42.5°	8151.9	8188.2	8402.0	8720.6	8781.2	8724.7	8426.2	7922.0	7429.9	7204.0	7220.1
45°	8652.1	8700.5	8978.8	9265.2	9406.4	9309.6	8962.7	8482.7	7909.9	7716.3	7639.6
47.5°	9111.9	9208.7	9479.0	9773.4	9991.2	9999.3	9571.7	8990.9	8385.9	8131.7	8127.7
50°	9422.5	9563.7	9829.9	10164.7	10483.3	10608.4	10180.8	9555.6	8906.2	8635.9	8607.7
52.5°	9591.9	9737.1	10003.3	10523.7	10878.6	11072.2	10870.6	10084.0	9515.3	9232.9	9188.5
55°	9386.2	9483.0	9918.6	10648.7	11197.3	11515.9	11382.8	10814.1	10120.3	9890.4	9930.7
57.5°	8510.9	8712.6	9249.1	10160.6	11189.2	11971.7	11959.6	11503.8	10818.1	10600.3	10608.4
60°	7006.4	7175.8	7837.3	9111.9	10737.5	12157.3	12584.8	12173.4	11600.6	11346.5	11338.5
62.5°	4945.2	5159.0	5925.4	7317.0	9406.4	11899.1	13302.8	13016.4	12367.0	12181.5	12250.1
65°	2767.1	2896.1	3606.0	4864.5	7167.7	10479.3	13431.9	13891.7	13145.5	12863.2	12875.3
67.5°	1480.3	1528.7	1859.5	2553.3	4384.5	8079.3	12129.0	14395.9	13988.5	13500.5	13423.8
70°	1016.5	1032.6	1117.3	1306.9	2073.3	4832.3	9148.2	13496.4	14621.8	13956.3	14085.3
72.5°	859.2	851.1	871.3	891.4	1085.0	2162.0	5368.7	10386.5	13803.0	13552.9	13504.5
75°	746.2	742.2	750.3	730.1	754.3	951.9	2375.8	6473.9	10104.2	11278.0	11459.5
77.5°	617.1	621.2	625.2	605.0	597.0	629.2	956.0	2843.7	4973.4	5489.7	5921.3
80°	467.9	476.0	508.2	488.1	455.8	459.8	564.7	951.9	1427.9	1294.8	1335.1
82.5°	318.7	322.7	391.3	367.1	342.9	310.6	363.0	492.1	556.6	423.5	371.1
85°	225.9	221.8	254.1	233.9	217.8	157.3	217.8	278.3	334.8	209.7	189.6
87.5°	52.4	52.4	104.9	84.7	80.7	64.5	84.7	108.9	145.2	92.8	84.7
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°	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9	3831.9
2.5°	3904.5	3868.2	3868.2	3860.2	3827.9	3819.8	3791.6	3799.7	3779.5	3759.3
5°	4041.7	3993.3	3993.3	3924.7	3860.2	3852.1	3819.8	3819.8	3787.6	3795.6
7.5°	4231.2	4186.9	4114.3	4053.8	3965.0	3928.7	3868.2	3860.2	3852.1	3836.0
10°	4457.1	4400.7	4328.1	4203.0	4130.4	4061.8	4001.3	3916.6	3896.5	3900.5
12.5°	4763.7	4674.9	4517.6	4408.7	4316.0	4227.2	4138.5	4013.4	3985.2	3997.3
15°	4981.5	4868.6	4711.2	4670.9	4545.9	4437.0	4291.8	4150.6	4102.2	4090.1
17.5°	5159.0	5066.2	4973.4	4912.9	4812.1	4679.0	4477.3	4316.0	4207.0	4194.9
20°	5304.2	5183.2	5163.0	5199.3	5074.3	4985.5	4739.5	4541.8	4396.6	4336.1
22.5°	5392.9	5316.3	5372.8	5405.0	5397.0	5247.7	4993.6	4763.7	4582.2	4525.7
25°	5489.7	5401.0	5602.7	5711.6	5739.8	5493.8	5296.1	4993.6	4816.1	4779.8
27.5°	5538.1	5570.4	5804.4	6034.3	6014.1	5824.5	5558.3	5288.1	5146.9	5082.3
30°	5679.3	5731.7	6086.7	6344.9	6348.9	6163.3	5961.7	5655.1	5497.8	5469.6
32.5°	5933.4	5998.0	6377.1	6651.4	6699.8	6558.6	6357.0	6167.4	6006.0	5941.5
35°	6127.0	6292.4	6720.0	6970.1	7099.1	7014.4	6901.5	6703.8	6534.4	6478.0
37.5°	6405.4	6635.3	7046.7	7385.5	7530.7	7522.7	7438.0	7224.2	7083.0	7034.6
40°	6804.7	7034.6	7409.7	7857.5	8127.7	8115.6	8067.2	7901.8	7692.1	7667.9
42.5°	7228.2	7417.8	7905.9	8418.1	8805.4	8765.0	8635.9	8442.3	8297.1	8264.9
45°	7639.6	7934.1	8385.9	9043.3	9333.8	9434.6	9281.3	8950.6	8785.2	8765.0
47.5°	8155.9	8389.9	8954.6	9543.5	9975.1	9991.2	9729.1	9422.5	9120.0	9184.5
50°	8615.8	8926.4	9499.1	10144.5	10660.8	10475.3	10140.5	9757.3	9539.5	9454.8
52.5°	9107.9	9487.0	10152.6	10810.1	11096.4	10910.9	10366.4	9938.8	9608.0	9571.7
55°	9825.9	10023.5	10894.8	11399.0	11491.7	11100.5	10297.8	9692.7	9265.2	9160.3
57.5°	10555.9	10785.9	11548.2	11983.8	11887.0	10995.6	9854.1	8918.3	8357.6	8208.4
60°	11294.1	11576.4	12217.8	12617.1	12116.9	10273.6	8599.6	7393.6	6740.2	6607.0
62.5°	12116.9	12484.0	13056.8	13197.9	11435.3	8845.7	6824.9	5336.5	4674.9	4453.1
65°	12847.0	13222.2	13928.0	13076.9	9987.2	6599.0	4412.8	3049.4	2561.3	2383.9
67.5°	13448.0	13871.6	14218.5	11572.4	7312.9	3864.2	2299.2	1605.4	1423.9	1359.3
70°	13924.0	14629.9	13008.4	8506.9	4178.8	1883.7	1242.3	1056.8	1032.6	1016.5
72.5°	13508.5	13415.8	9712.9	4908.9	1831.3	1036.6	899.5	871.3	867.2	871.3
75°	11048.0	9854.1	5808.4	2133.8	919.7	750.3	746.2	734.1	754.3	754.3
77.5°	5360.7	4687.0	2428.2	915.6	605.0	588.9	609.1	609.1	609.1	609.1
80°	1242.3	1375.5	867.2	556.6	439.7	439.7	484.0	488.1	467.9	459.8
82.5°	423.5	564.7	476.0	350.9	290.4	326.7	367.1	375.1	310.6	314.6
85°	209.7	330.8	258.2	201.7	149.2	201.7	238.0	250.1	213.8	205.7
87.5°	96.8	145.2	96.8	68.6	52.4	72.6	68.6	56.5	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)