

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: P481449

Luminaire Tested: **IFLD-S-SA6C-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481449
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-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

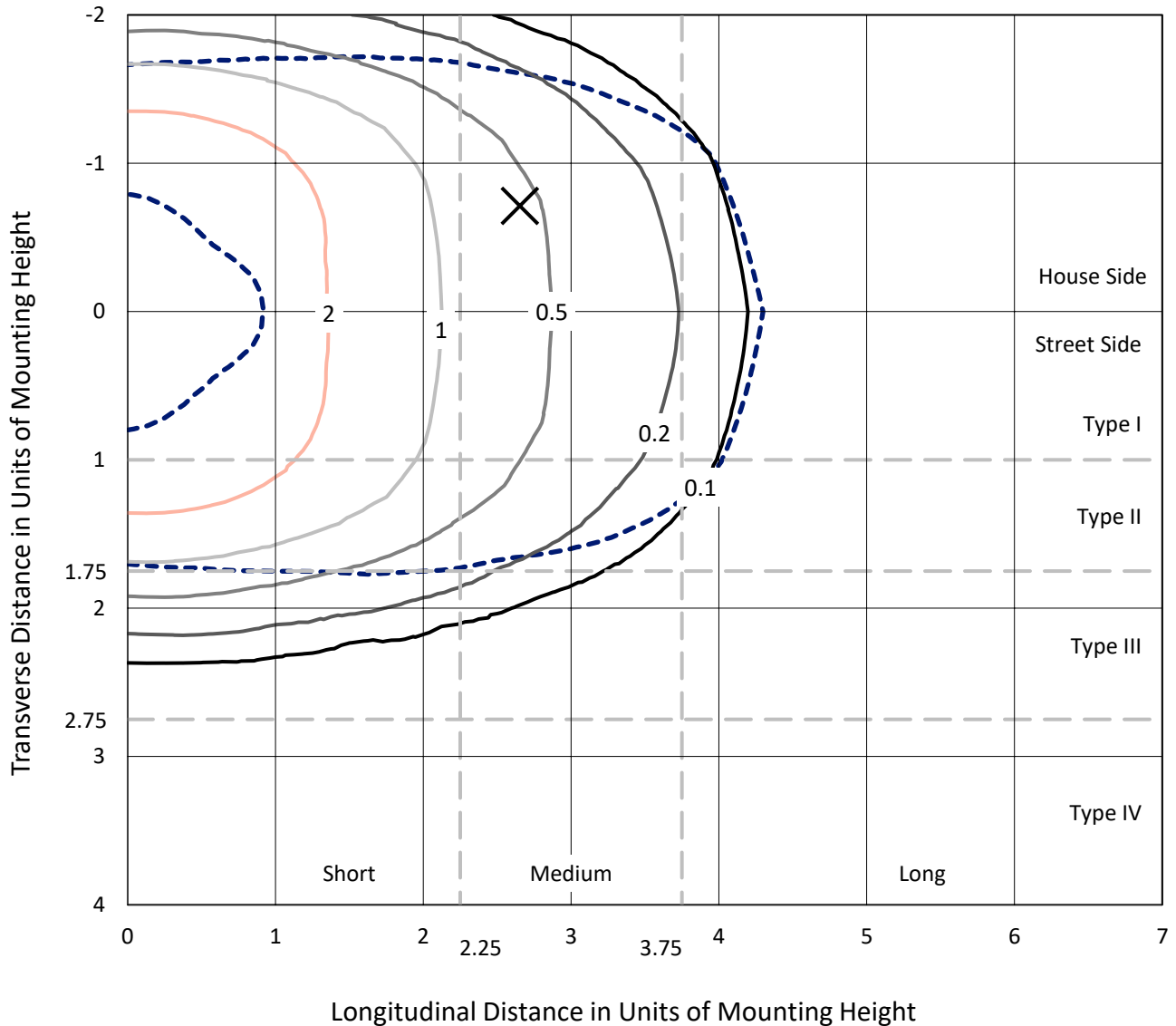
Lumens per Lamp: N/A
Luminaire Lumens: 34008.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 321.5
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

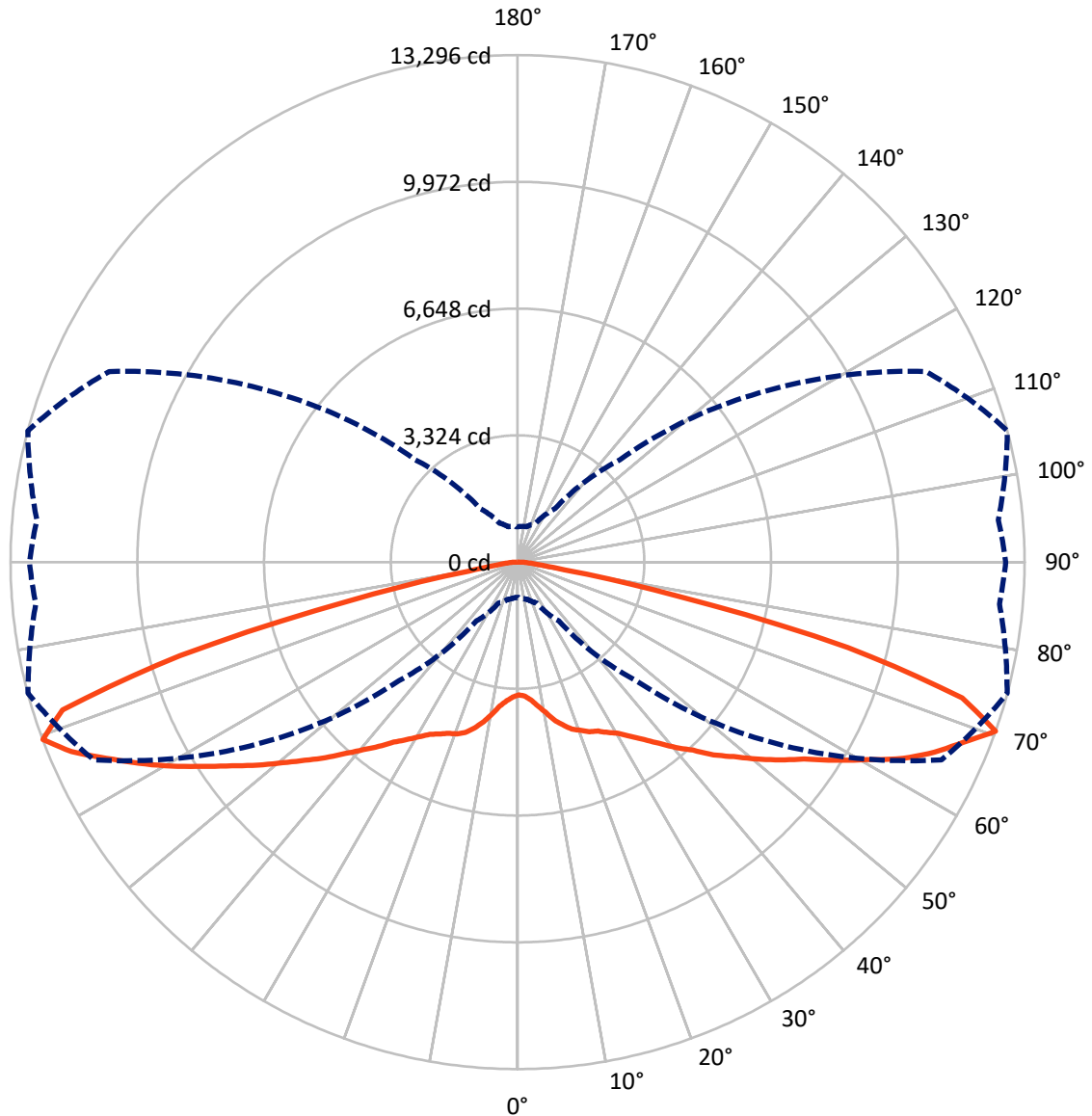
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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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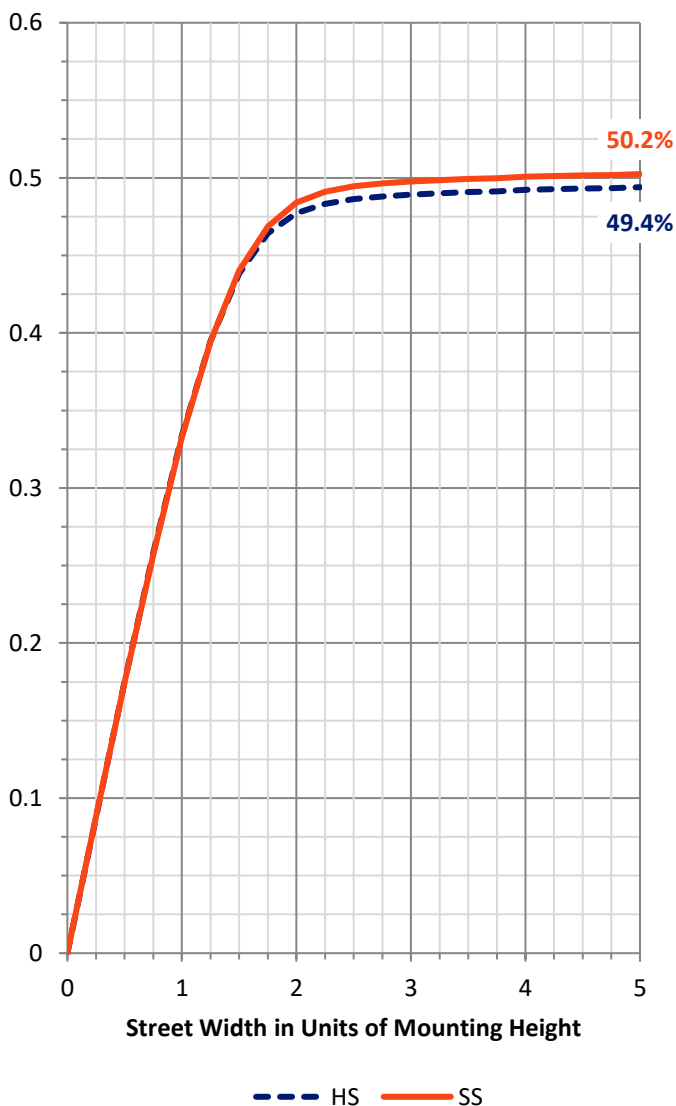
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16883.3	0.0	16883.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17125.2	0.0	17125.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	34008.5	0.0	34008.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	1.0
10°-20°	1180.2	3.5
20°-30°	2285.3	6.7
30°-40°	3865.4	11.4
40°-50°	6166.4	18.1
50°-60°	8440.5	24.8
60°-70°	7955.7	23.4
70°-80°	3504.7	10.3
80°-90°	263.7	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°	34008.5	100.0
0°-180°	34008.5	100.0

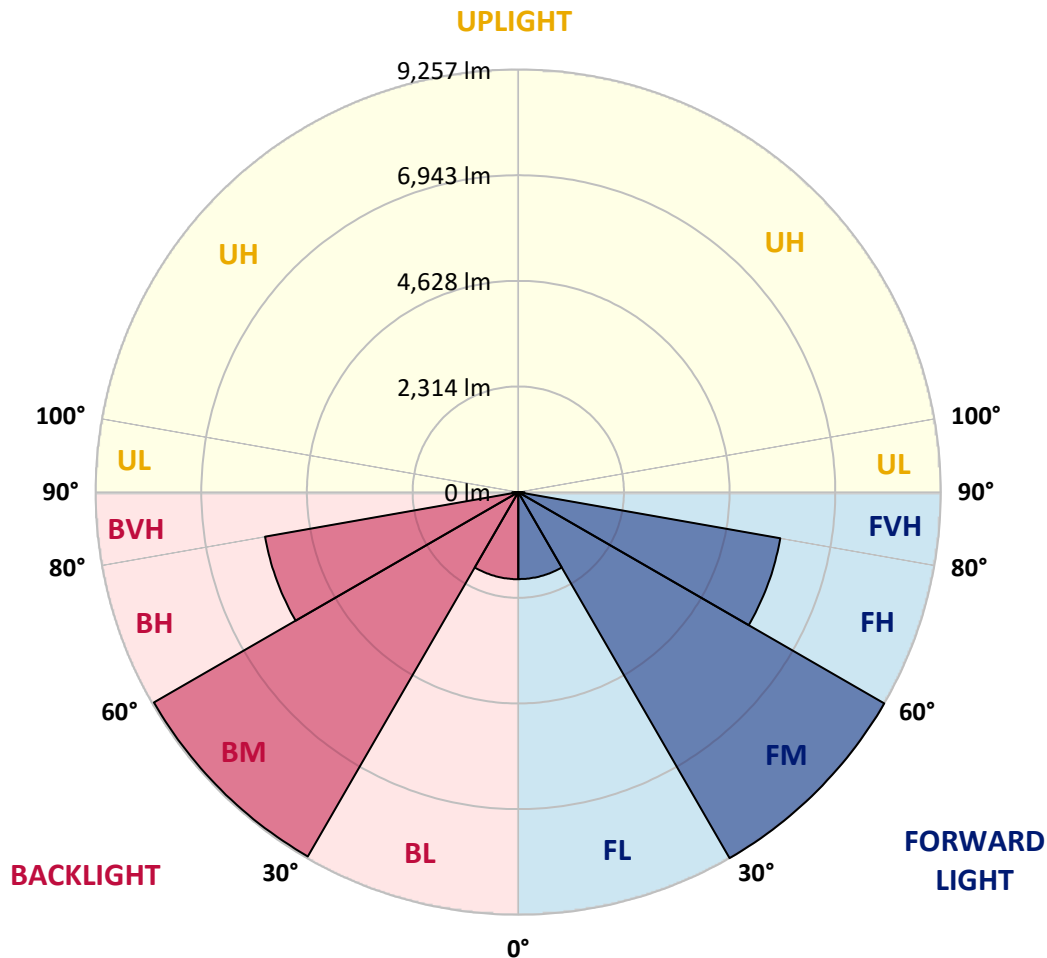


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.0	5.6			
FM (30°-60°)	9256.8	27.2			
FH (60°-80°)	5828.7	17.1			G3/7500
FVH (80°-90°)	134.7	0.4			G2/225
BL (0°-30°)	1907.1	5.6	B3/2500		
BM (30°-60°)	9215.4	27.1	B5		
BH (60°-80°)	5631.7	16.6	B5		G5
BVH (80°-90°)	129.0	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°	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4
2.5°	3460.4	3460.4	3456.8	3475.1	3493.4	3500.8	3515.4	3519.1	3541.1	3522.8	3559.4
5°	3449.4	3445.8	3475.1	3519.1	3519.1	3566.7	3596.1	3636.4	3647.4	3669.4	3676.7
7.5°	3526.4	3519.1	3504.4	3552.1	3592.4	3665.7	3706.0	3775.7	3801.4	3830.7	3863.7
10°	3574.1	3574.1	3559.4	3643.7	3680.4	3779.4	3867.3	3937.0	4036.0	4069.0	4072.6
12.5°	3581.4	3592.4	3636.4	3746.4	3849.0	3977.3	4043.3	4175.3	4274.2	4336.5	4358.5
15°	3691.4	3669.4	3717.0	3867.3	4017.6	4131.3	4248.6	4343.9	4486.8	4567.5	4618.8
17.5°	3790.4	3768.4	3856.3	4036.0	4189.9	4365.9	4468.5	4571.2	4673.8	4747.1	4750.8
20°	3948.0	3966.3	4043.3	4237.6	4439.2	4593.1	4710.5	4728.8	4780.1	4886.4	4868.1
22.5°	4142.3	4127.6	4288.9	4501.5	4721.4	4849.8	4915.7	4868.1	4842.4	4956.1	4981.7
25°	4336.5	4380.5	4527.2	4725.1	4989.0	5161.3	5179.7	5047.7	4952.4	4992.7	4981.7
27.5°	4633.5	4640.8	4794.8	5029.4	5297.0	5447.3	5436.3	5249.3	5066.0	5069.7	5077.0
30°	5014.7	4978.1	5146.7	5359.3	5623.2	5758.8	5777.2	5509.6	5264.0	5190.7	5209.0
32.5°	5381.3	5425.3	5571.9	5813.8	6008.1	6085.1	6044.8	5806.5	5487.6	5388.6	5399.6
35°	5850.5	5843.2	6044.8	6250.1	6396.7	6411.3	6378.4	6030.1	5729.5	5601.2	5549.9
37.5°	6352.7	6418.7	6550.6	6719.3	6873.2	6880.6	6700.9	6422.3	6052.1	5839.5	5901.8
40°	6913.6	6986.9	7082.2	7327.8	7441.4	7324.1	7140.8	6763.3	6378.4	6191.4	6220.7
42.5°	7408.4	7441.4	7635.7	7925.3	7980.3	7929.0	7657.7	7199.5	6752.3	6547.0	6561.6
45°	7863.0	7907.0	8159.9	8420.2	8548.5	8460.5	8145.2	7709.0	7188.5	7012.5	6942.9
47.5°	8280.9	8368.8	8614.4	8882.0	9080.0	9087.3	8698.8	8170.9	7621.0	7390.1	7386.4
50°	8563.1	8691.4	8933.4	9237.6	9527.2	9640.8	9252.3	8684.1	8093.9	7848.3	7822.7
52.5°	8717.1	8849.1	9091.0	9563.9	9886.5	10062.4	9879.1	9164.3	8647.4	8390.8	8350.5
55°	8530.1	8618.1	9014.0	9677.5	10176.0	10465.6	10344.7	9827.8	9197.3	8988.4	9025.0
57.5°	7734.7	7918.0	8405.5	9234.0	10168.7	10879.9	10868.9	10454.6	9831.5	9633.5	9640.8
60°	6367.4	6521.3	7122.5	8280.9	9758.2	11048.5	11437.1	11063.1	10542.6	10311.7	10304.3
62.5°	4494.2	4688.5	5384.9	6649.6	8548.5	10813.9	12089.6	11829.3	11239.1	11070.5	11132.8
65°	2514.7	2632.0	3277.2	4420.9	6514.0	9523.5	12206.9	12624.7	11946.6	11690.0	11701.0
67.5°	1345.3	1389.3	1689.9	2320.4	3984.6	7342.4	11022.8	13083.0	12712.7	12269.2	12199.5
70°	923.8	938.4	1015.4	1187.7	1884.2	4391.5	8313.9	12265.5	13288.2	12683.4	12800.7
72.5°	780.8	773.5	791.8	810.1	986.1	1964.8	4879.1	9439.2	12544.1	12316.8	12272.8
75°	678.2	674.5	681.8	663.5	685.5	865.1	2159.1	5883.5	9182.6	10249.4	10414.3
77.5°	560.9	564.5	568.2	549.9	542.5	571.9	868.8	2584.3	4519.8	4989.0	5381.3
80°	425.2	432.6	461.9	443.6	414.2	417.9	513.2	865.1	1297.7	1176.7	1213.4
82.5°	289.6	293.3	355.6	333.6	311.6	282.3	329.9	447.2	505.9	384.9	337.2
85°	205.3	201.6	230.9	212.6	197.9	143.0	197.9	252.9	304.3	190.6	172.3
87.5°	47.7	47.7	95.3	77.0	73.3	58.7	77.0	99.0	132.0	84.3	77.0
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°	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4	3482.4
2.5°	3548.4	3515.4	3515.4	3508.1	3478.8	3471.4	3445.8	3453.1	3434.8	3416.5
5°	3673.1	3629.1	3629.1	3566.7	3508.1	3500.8	3471.4	3471.4	3442.1	3449.4
7.5°	3845.3	3805.0	3739.0	3684.1	3603.4	3570.4	3515.4	3508.1	3500.8	3486.1
10°	4050.6	3999.3	3933.3	3819.7	3753.7	3691.4	3636.4	3559.4	3541.1	3544.8
12.5°	4329.2	4248.6	4105.6	4006.6	3922.3	3841.7	3761.0	3647.4	3621.7	3632.7
15°	4527.2	4424.5	4281.6	4244.9	4131.3	4032.3	3900.3	3772.0	3728.0	3717.0
17.5°	4688.5	4604.1	4519.8	4464.8	4373.2	4252.2	4069.0	3922.3	3823.3	3812.4
20°	4820.4	4710.5	4692.1	4725.1	4611.5	4530.8	4307.2	4127.6	3995.6	3940.7
22.5°	4901.1	4831.4	4882.7	4912.1	4904.7	4769.1	4538.2	4329.2	4164.3	4112.9
25°	4989.0	4908.4	5091.7	5190.7	5216.3	4992.7	4813.1	4538.2	4376.9	4343.9
27.5°	5033.0	5062.4	5275.0	5483.9	5465.6	5293.3	5051.4	4805.8	4677.5	4618.8
30°	5161.3	5209.0	5531.6	5766.2	5769.8	5601.2	5417.9	5139.3	4996.4	4970.7
32.5°	5392.3	5450.9	5795.5	6044.8	6088.8	5960.5	5777.2	5604.9	5458.3	5399.6
35°	5568.2	5718.5	6107.1	6334.4	6451.7	6374.7	6272.1	6092.4	5938.5	5887.1
37.5°	5821.2	6030.1	6404.0	6711.9	6843.9	6836.6	6759.6	6565.3	6437.0	6393.0
40°	6184.1	6393.0	6733.9	7140.8	7386.4	7375.4	7331.4	7181.1	6990.5	6968.5
42.5°	6569.0	6741.3	7184.8	7650.4	8002.3	7965.6	7848.3	7672.4	7540.4	7511.1
45°	6942.9	7210.5	7621.0	8218.5	8482.5	8574.1	8434.8	8134.2	7983.9	7965.6
47.5°	7412.1	7624.7	8137.9	8673.1	9065.3	9080.0	8841.7	8563.1	8288.2	8346.8
50°	7830.0	8112.2	8632.8	9219.3	9688.5	9519.9	9215.6	8867.4	8669.4	8592.5
52.5°	8277.2	8621.8	9226.6	9824.1	10084.4	9915.8	9420.9	9032.3	8731.7	8698.8
55°	8929.7	9109.3	9901.1	10359.3	10443.6	10088.1	9358.6	8808.7	8420.2	8324.9
57.5°	9593.2	9802.1	10495.0	10890.9	10802.9	9992.8	8955.4	8104.9	7595.4	7459.7
60°	10264.0	10520.6	11103.5	11466.4	11011.8	9336.6	7815.3	6719.3	6125.4	6004.5
62.5°	11011.8	11345.4	11865.9	11994.2	10392.3	8038.9	6202.4	4849.8	4248.6	4047.0
65°	11675.3	12016.2	12657.7	11884.3	9076.3	5997.1	4010.3	2771.3	2327.7	2166.4
67.5°	12221.5	12606.4	12921.7	10517.0	6646.0	3511.8	2089.5	1459.0	1294.0	1235.3
70°	12654.1	13295.6	11822.0	7731.0	3797.7	1711.9	1129.0	960.4	938.4	923.8
72.5°	12276.5	12192.2	8827.1	4461.2	1664.2	942.1	817.5	791.8	788.1	791.8
75°	10040.4	8955.4	5278.6	1939.2	835.8	681.8	678.2	667.2	685.5	685.5
77.5°	4871.7	4259.6	2206.8	832.1	549.9	535.2	553.5	553.5	553.5	553.5
80°	1129.0	1250.0	788.1	505.9	399.6	399.6	439.9	443.6	425.2	417.9
82.5°	384.9	513.2	432.6	318.9	263.9	296.9	333.6	340.9	282.3	285.9
85°	190.6	300.6	234.6	183.3	135.6	183.3	216.3	227.3	194.3	187.0
87.5°	88.0	132.0	88.0	62.3	47.7	66.0	62.3	51.3	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)