

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: P479111

Luminaire Tested: **IFLD-S-SA6E-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479111
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

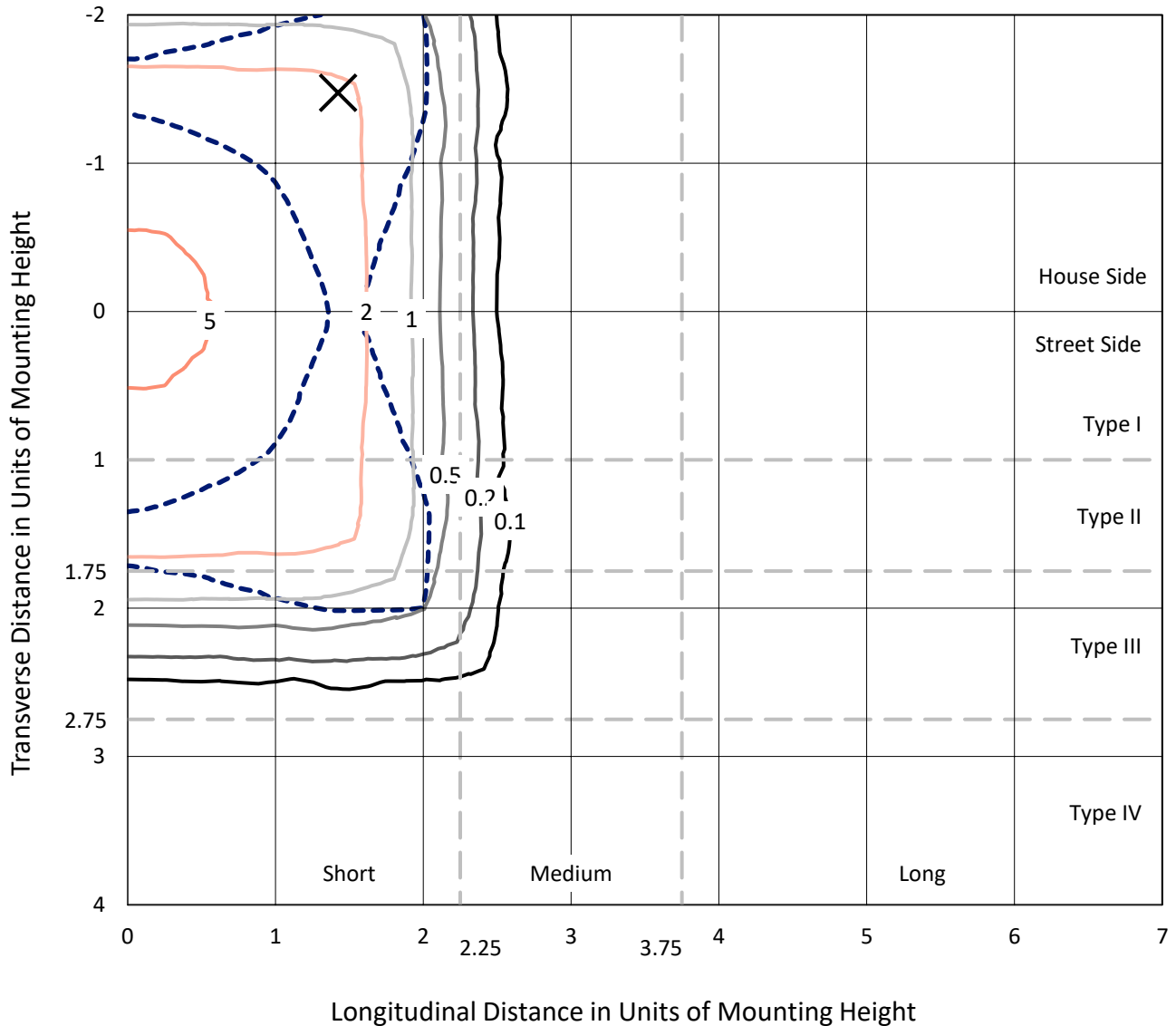
Lumens per Lamp: N/A
Luminaire Lumens: 41934.2 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 464.2
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

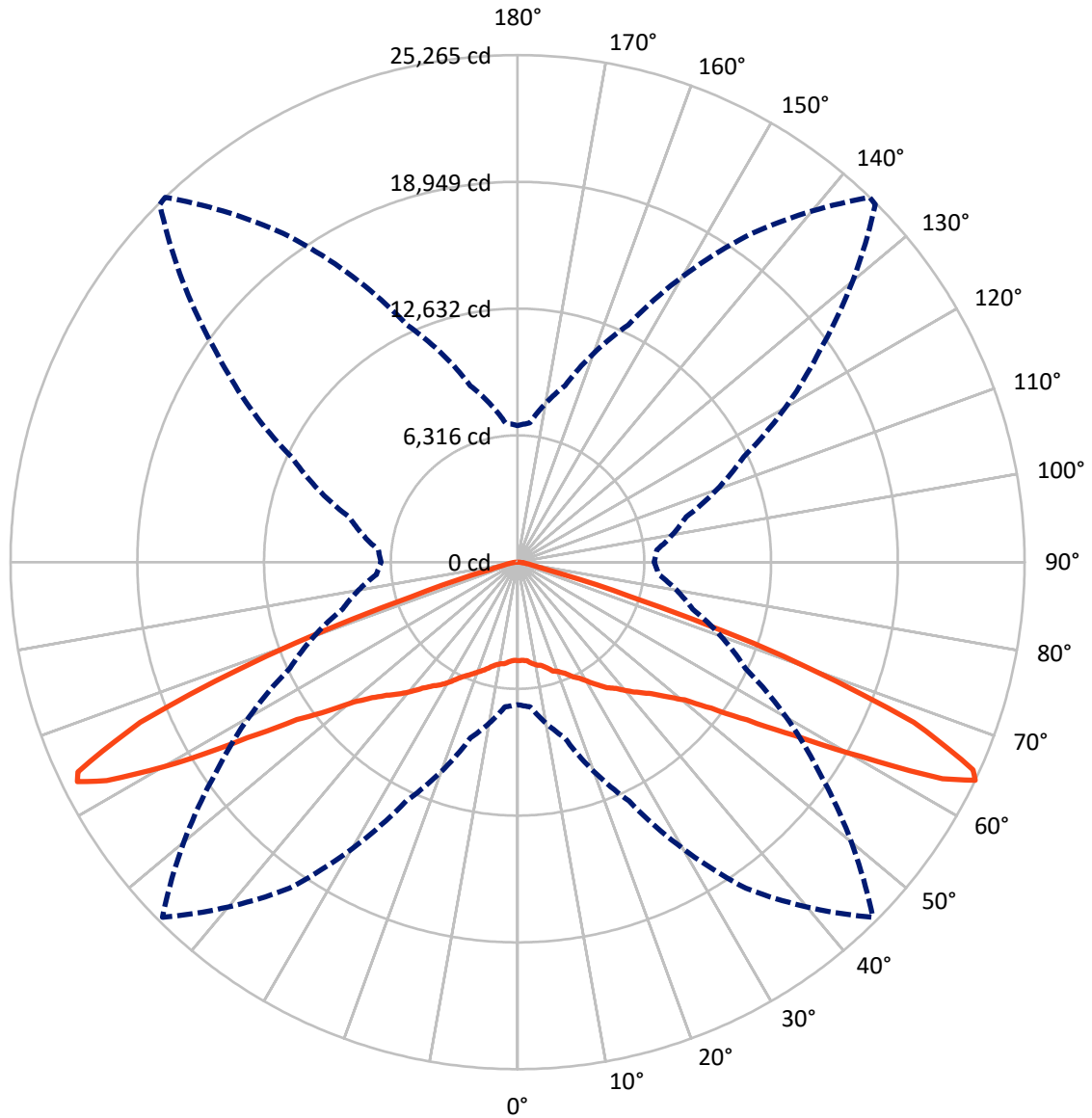
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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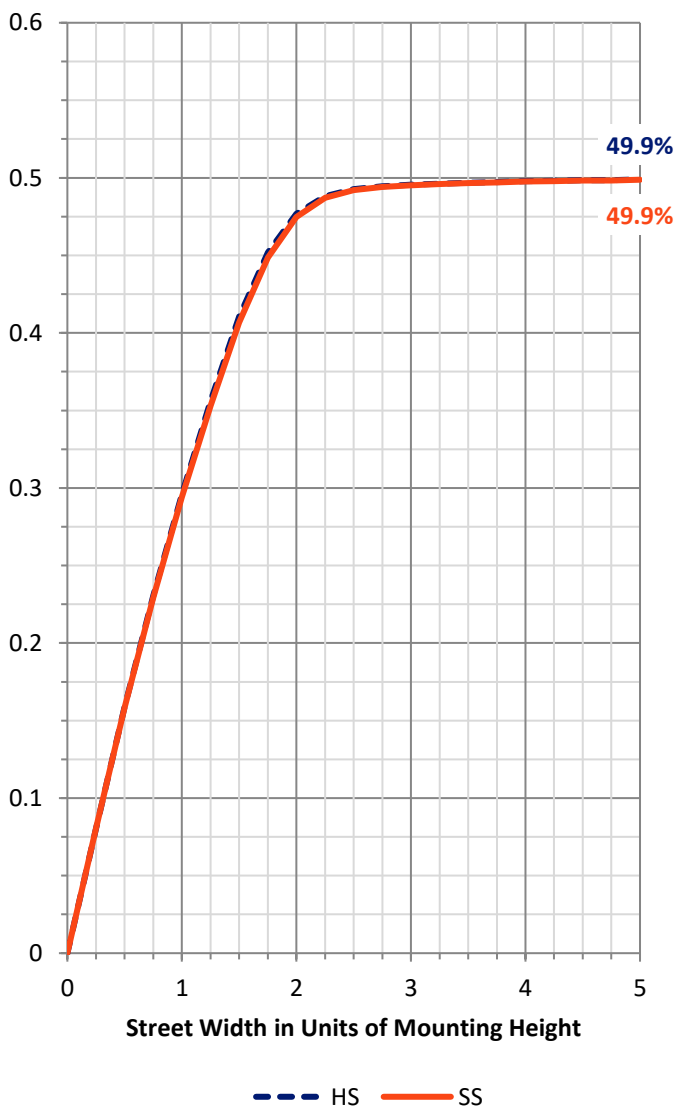
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20987.1	0.0	20987.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20947.1	0.0	20947.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	41934.2	0.0	41934.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	1.2
10°-20°	1554.8	3.7
20°-30°	2922.1	7.0
30°-40°	4819.1	11.5
40°-50°	7536.7	18.0
50°-60°	12177.5	29.0
60°-70°	10965.0	26.1
70°-80°	1298.9	3.1
80°-90°	177.8	0.4
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°	41934.2	100.0
0°-180°	41934.2	100.0

Coefficient of Utilization



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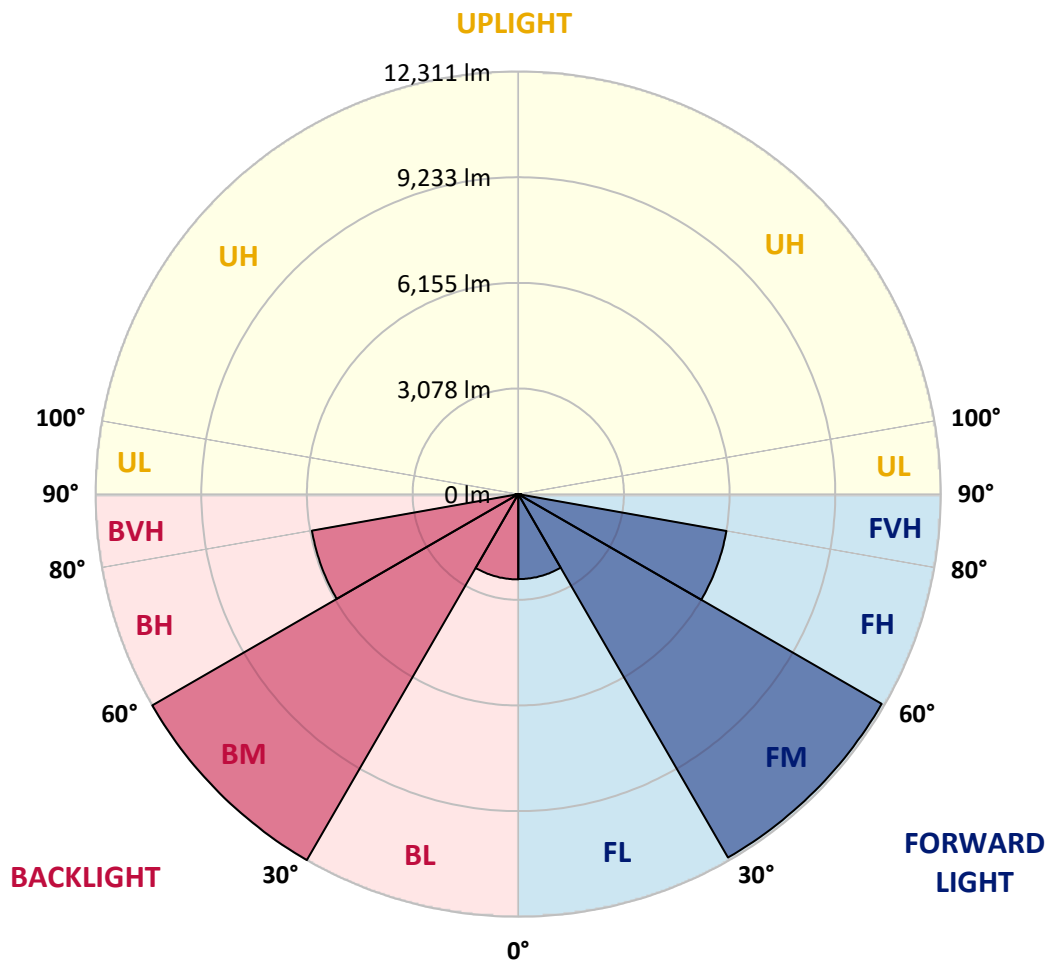
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2474.9	5.9			
FM (30°-60°)	12222.5	29.1			
FH (60°-80°)	6158.5	14.7			G3/7500
FVH (80°-90°)	91.2	0.2			G1/100
BL (0°-30°)	2484.4	5.9	B3/2500		
BM (30°-60°)	12310.7	29.4	B5		
BH (60°-80°)	6105.4	14.6	B5		G3/7500
BVH (80°-90°)	86.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6
2.5°	4851.9	4861.5	4948.1	4914.4	4943.3	4890.4	4928.9	5010.6	4914.4	4986.6	5010.6
5°	4904.8	4919.3	4919.3	4952.9	4972.1	4962.5	4986.6	4952.9	5044.3	5005.8	5063.5
7.5°	5097.2	5073.1	5034.7	5063.5	5068.3	5092.4	5116.4	5159.7	5145.3	5111.6	5169.3
10°	5130.8	5111.6	5169.3	5174.1	5150.1	5130.8	5154.9	5154.9	5198.2	5207.8	5207.8
12.5°	5188.5	5207.8	5203.0	5241.4	5246.2	5231.8	5270.3	5342.4	5323.2	5337.6	5303.9
15°	5409.7	5385.7	5380.9	5419.4	5481.9	5390.5	5457.8	5453.0	5433.8	5462.6	5385.7
17.5°	5602.1	5525.1	5558.8	5621.3	5597.3	5616.5	5703.1	5626.1	5645.4	5611.7	5587.7
20°	5770.4	5707.9	5712.7	5736.7	5736.7	5794.4	5828.1	5799.2	5780.0	5775.2	5784.8
22.5°	5957.9	5885.8	5890.6	5991.6	6025.2	6006.0	5982.0	6030.1	6039.7	6001.2	6044.5
25°	6097.4	6174.3	6198.4	6246.4	6174.3	6227.2	6208.0	6299.3	6357.0	6280.1	6333.0
27.5°	6462.8	6429.2	6491.7	6486.9	6544.6	6491.7	6525.3	6554.2	6578.2	6583.0	6559.0
30°	6789.8	6804.2	6741.7	6910.0	6775.4	6861.9	6919.7	6934.1	6962.9	6962.9	6890.8
32.5°	7136.0	7107.2	7208.2	7169.7	7145.7	7213.0	7150.5	7347.6	7232.2	7299.5	7217.8
35°	7525.5	7525.5	7564.0	7669.8	7525.5	7482.3	7597.7	7679.4	7679.4	7559.2	7588.1
37.5°	7963.1	7924.7	7972.7	8107.4	7996.8	7852.5	8064.1	8097.8	8073.7	8040.1	7982.4
40°	8270.9	8261.3	8357.4	8535.4	8376.7	8347.8	8386.3	8477.7	8506.5	8540.2	8463.2
42.5°	8790.2	8833.5	9112.4	9069.1	8939.3	8838.3	8828.7	9170.1	9088.4	9001.8	8958.5
45°	9559.6	9521.1	9665.4	9670.2	9501.9	9280.7	9328.8	9641.3	9780.8	9588.5	9660.6
47.5°	10170.3	10189.5	10290.5	10497.3	10107.8	9877.0	10054.9	10559.8	10516.5	10444.4	10511.7
50°	10987.8	11074.3	11391.7	11319.6	10973.3	10689.6	11079.1	11555.2	11608.1	11343.6	11295.5
52.5°	12117.8	12252.4	12425.6	12483.3	12151.5	12050.5	12074.5	12666.0	12536.2	12281.3	12117.8
55°	13108.4	13170.9	13488.3	13964.3	13940.3	13454.6	13733.5	13954.7	13425.8	12901.6	12944.9
57.5°	13531.5	13560.4	14445.2	15397.3	15964.7	16075.3	15758.0	15012.6	13752.7	12742.9	12680.4
60°	12478.5	12752.5	13820.1	15969.5	18561.4	19840.5	17729.5	15132.8	12988.2	11762.0	11670.6
62.5°	9973.1	9987.6	11574.4	14834.7	20177.1	23528.7	18484.5	14002.8	10949.3	9559.6	9194.1
64°	7102.4	7237.0	9059.5	13132.4	19840.5	25029.0	18393.1	12526.5	9025.8	7054.3	6799.4
65°	5097.2	5284.7	7044.7	11401.3	19051.9	24851.1	18119.0	11257.1	7299.5	5385.7	5126.0
67.5°	1875.4	1952.3	2765.0	5703.1	13680.6	21177.3	14358.6	6188.7	3207.4	2284.1	2053.3
70°	870.4	875.2	1024.2	1885.0	5982.0	14161.5	6852.3	2322.6	1207.0	956.9	889.6
72.5°	639.6	654.0	716.5	870.4	1760.0	5996.4	2250.4	952.1	706.9	625.1	610.7
75°	519.3	529.0	548.2	629.9	812.7	1606.1	913.6	658.8	562.6	504.9	485.7
77.5°	399.1	399.1	442.4	480.9	538.6	750.1	605.9	524.1	456.8	399.1	384.7
80°	288.5	293.3	346.2	375.1	365.5	495.3	437.6	432.8	375.1	312.6	288.5
82.5°	168.3	182.7	250.0	269.3	259.7	293.3	317.4	336.6	293.3	216.4	197.2
85°	96.2	101.0	144.3	149.1	149.1	139.5	182.7	202.0	197.2	134.6	120.2
87.5°	28.9	28.9	38.5	38.5	43.3	48.1	72.1	86.6	96.2	67.3	62.5
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°	136°	145°	155°	165°	175°	180°
0°	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6	4909.6
2.5°	4986.6	4914.4	4919.3	4938.5	4876.0	4900.0	4972.1	4919.3	4904.8	4876.0	4861.5
5°	4962.5	5039.5	5010.6	5020.2	5005.8	4938.5	4928.9	4972.1	4996.2	4952.9	5039.5
7.5°	5130.8	5097.2	5058.7	5073.1	5039.5	5097.2	5135.6	5049.1	5092.4	5068.3	5020.2
10°	5227.0	5164.5	5193.3	5183.7	5159.7	5217.4	5178.9	5169.3	5130.8	5077.9	5154.9
12.5°	5260.7	5332.8	5380.9	5299.1	5313.6	5284.7	5260.7	5260.7	5217.4	5203.0	5217.4
15°	5409.7	5472.2	5453.0	5515.5	5433.8	5462.6	5491.5	5419.4	5457.8	5352.0	5433.8
17.5°	5683.8	5630.9	5698.3	5616.5	5645.4	5703.1	5611.7	5611.7	5640.5	5582.8	5510.7
20°	5856.9	5832.9	5808.9	5813.7	5765.6	5818.5	5789.6	5775.2	5731.9	5751.1	5789.6
22.5°	6020.4	5986.8	5996.4	6010.8	6044.5	6020.4	6006.0	6020.4	5914.6	6010.8	5876.2
25°	6222.4	6313.8	6284.9	6347.4	6251.2	6313.8	6309.0	6217.6	6275.3	6236.8	6208.0
27.5°	6559.0	6510.9	6554.2	6477.3	6544.6	6549.4	6491.7	6645.6	6578.2	6568.6	6549.4
30°	6991.8	6958.1	6929.3	6886.0	6938.9	6895.6	6943.7	6958.1	6895.6	6847.5	6756.2
32.5°	7237.0	7328.4	7362.0	7256.3	7261.1	7285.1	7241.8	7198.6	7237.0	7251.4	7237.0
35°	7583.2	7669.8	7689.0	7607.3	7564.0	7684.2	7597.7	7741.9	7616.9	7621.7	7491.9
37.5°	7987.2	8011.2	8174.7	8083.3	8044.9	7987.2	8145.9	8126.6	8155.5	7924.7	8040.1
40°	8444.0	8530.5	8621.9	8391.1	8386.3	8439.2	8429.6	8540.2	8487.3	8453.6	8371.9
42.5°	8944.1	9126.8	9141.2	8987.4	8891.2	8881.6	8929.7	9174.9	9179.7	8958.5	8862.3
45°	9607.7	9809.7	9756.8	9458.6	9352.8	9338.4	9574.0	9679.8	9771.2	9684.6	9602.9
47.5°	10434.8	10569.4	10530.9	10256.9	9915.4	10011.6	10242.4	10574.2	10478.1	10362.6	10266.5
50°	11319.6	11478.3	11396.5	11122.4	10795.4	10795.4	11079.1	11502.3	11473.4	11247.4	11160.9
52.5°	12300.5	12531.3	12718.9	12329.4	12055.3	12098.6	12545.8	12699.7	12627.5	12468.8	12396.7
55°	13031.4	13473.8	13858.5	13877.8	13892.2	13887.4	14002.8	14156.7	13642.1	13387.3	13127.6
57.5°	12853.5	13690.2	15007.8	15902.2	16166.7	16306.1	16267.7	15556.0	14339.4	13502.7	13589.3
60°	11584.0	12949.7	15075.1	17945.9	19869.4	19677.0	18974.9	16161.9	13954.7	12541.0	12363.0
62.5°	9242.2	10886.8	13945.1	18522.9	23822.1	23764.4	20090.6	14762.6	11627.3	9838.5	9727.9
64°	6962.9	8694.0	12440.0	18373.9	25207.0	25264.7	19806.8	13041.1	9098.0	6962.9	6794.6
65°	5328.0	6934.1	10963.7	18066.1	24908.8	24942.5	19018.2	11261.9	6914.8	4943.3	4760.6
67.5°	2120.6	2952.5	5948.3	13699.9	21388.9	21297.5	13570.0	5448.2	2644.8	1721.5	1687.8
70°	904.0	1125.2	2087.0	6491.7	14320.2	14055.7	5842.5	1769.6	981.0	822.3	817.5
72.5°	620.3	687.6	894.4	2005.2	5953.1	5813.7	1663.8	822.3	668.4	615.5	615.5
75°	500.1	548.2	649.2	841.5	1577.2	1519.5	783.8	605.9	533.8	495.3	490.5
77.5°	389.5	437.6	509.7	581.8	721.3	716.5	524.1	456.8	413.5	384.7	375.1
80°	307.8	355.8	403.9	413.5	471.2	461.6	355.8	360.6	336.6	278.9	274.1
82.5°	211.6	288.5	322.2	293.3	278.9	278.9	254.9	254.9	235.6	173.1	158.7
85°	129.8	192.3	202.0	173.1	129.8	129.8	139.5	134.6	125.0	91.4	86.6
87.5°	67.3	91.4	81.7	67.3	43.3	43.3	38.5	28.9	28.9	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)