

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: McGRAW-EDISON

Report Number: P318524

Luminaire Tested: **GLEON-SA0B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41590 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

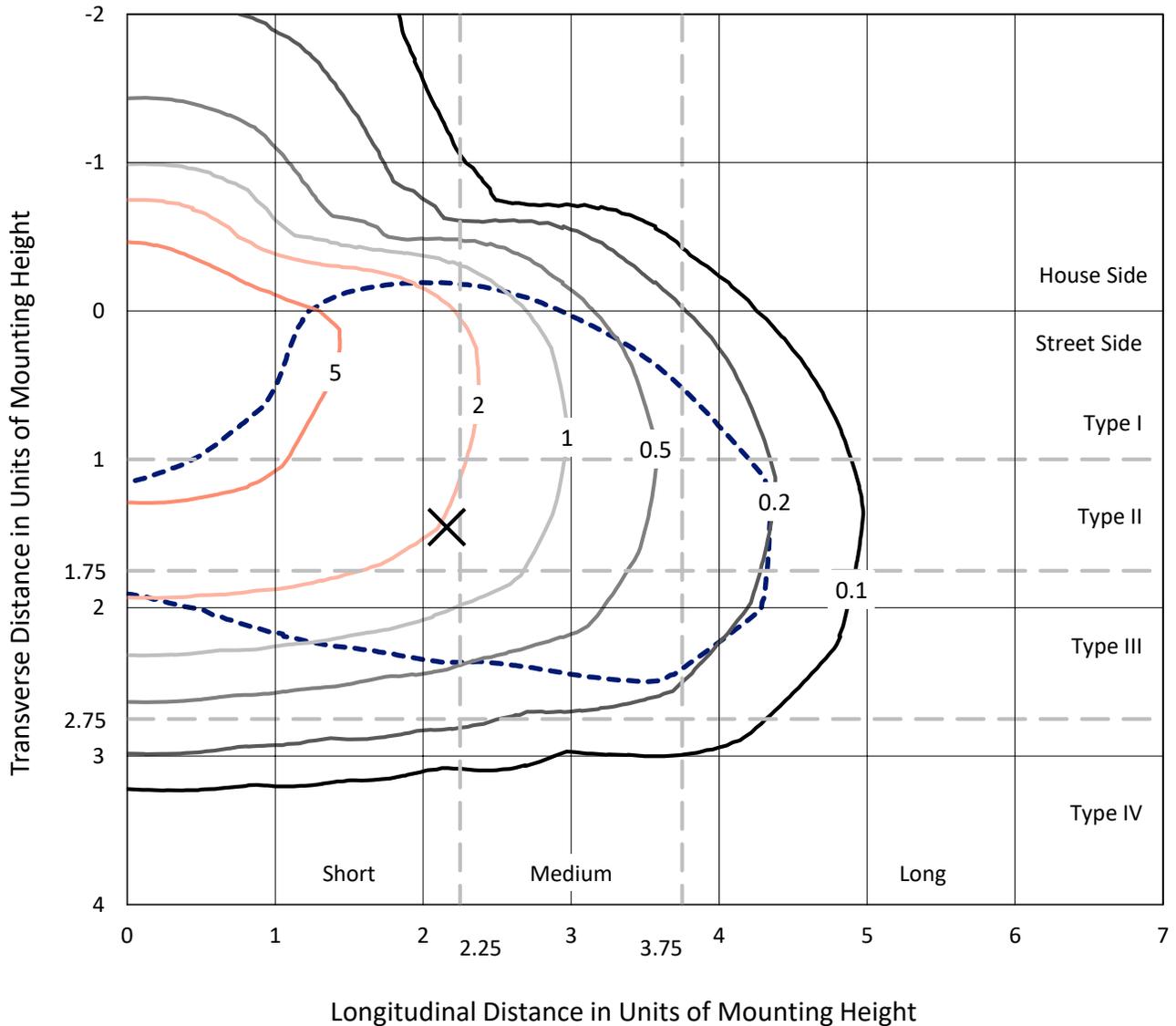
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

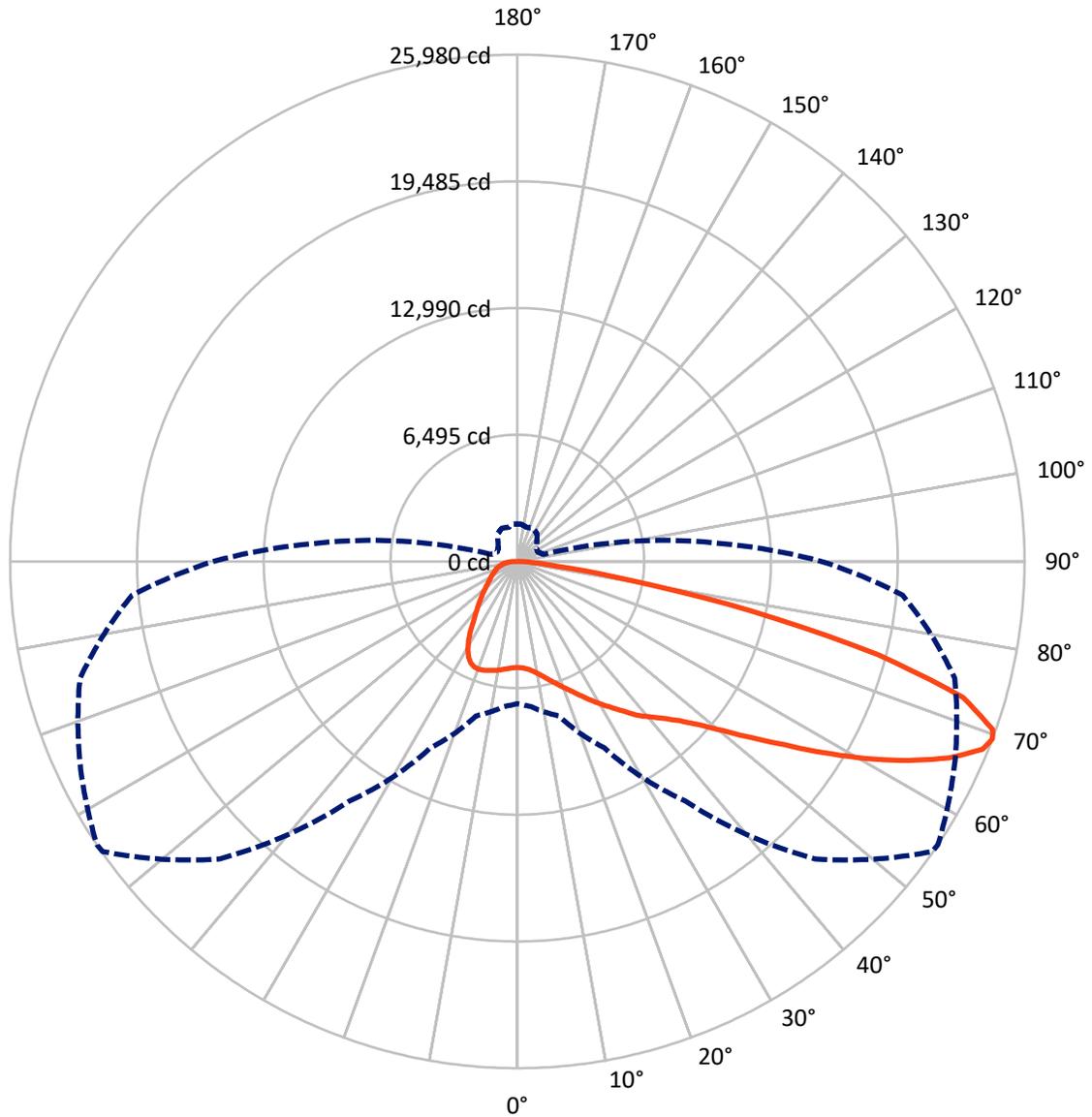
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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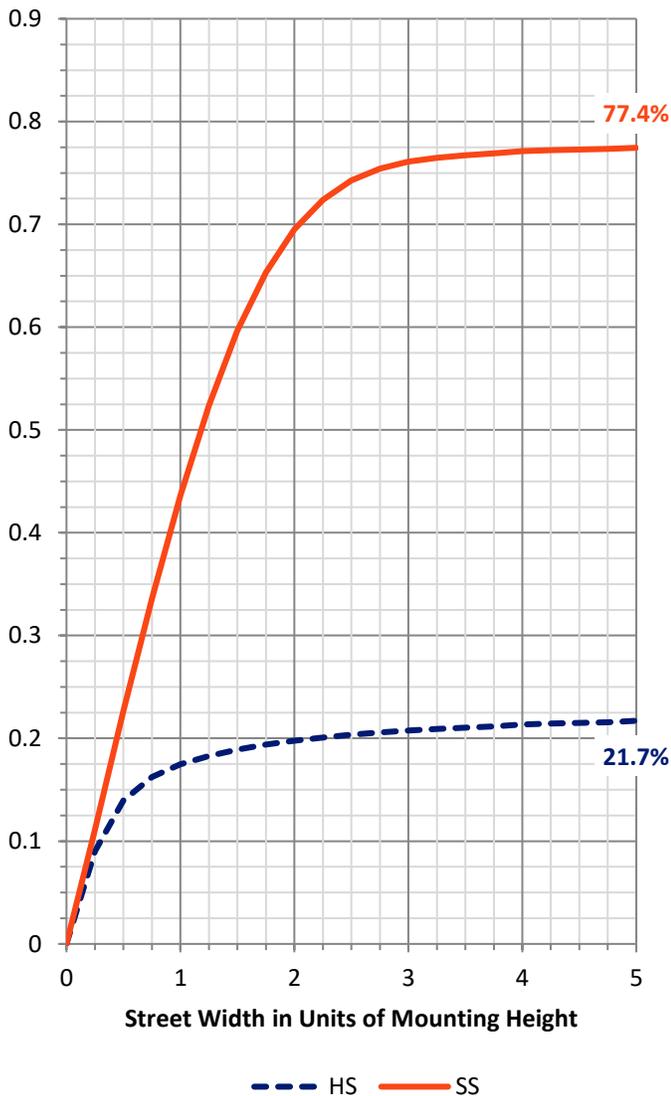
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9262.0	0.0	9262.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32328.0	0.0	32328.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	41590.0	0.0	41590.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.0	1.3
10°-20°	1717.2	4.1
20°-30°	2997.6	7.2
30°-40°	4305.9	10.4
40°-50°	5959.2	14.3
50°-60°	8731.0	21.0
60°-70°	10644.8	25.6
70°-80°	5885.1	14.2
80°-90°	815.1	2.0
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°	41590.0	100.0
0°-180°	41590.0	100.0



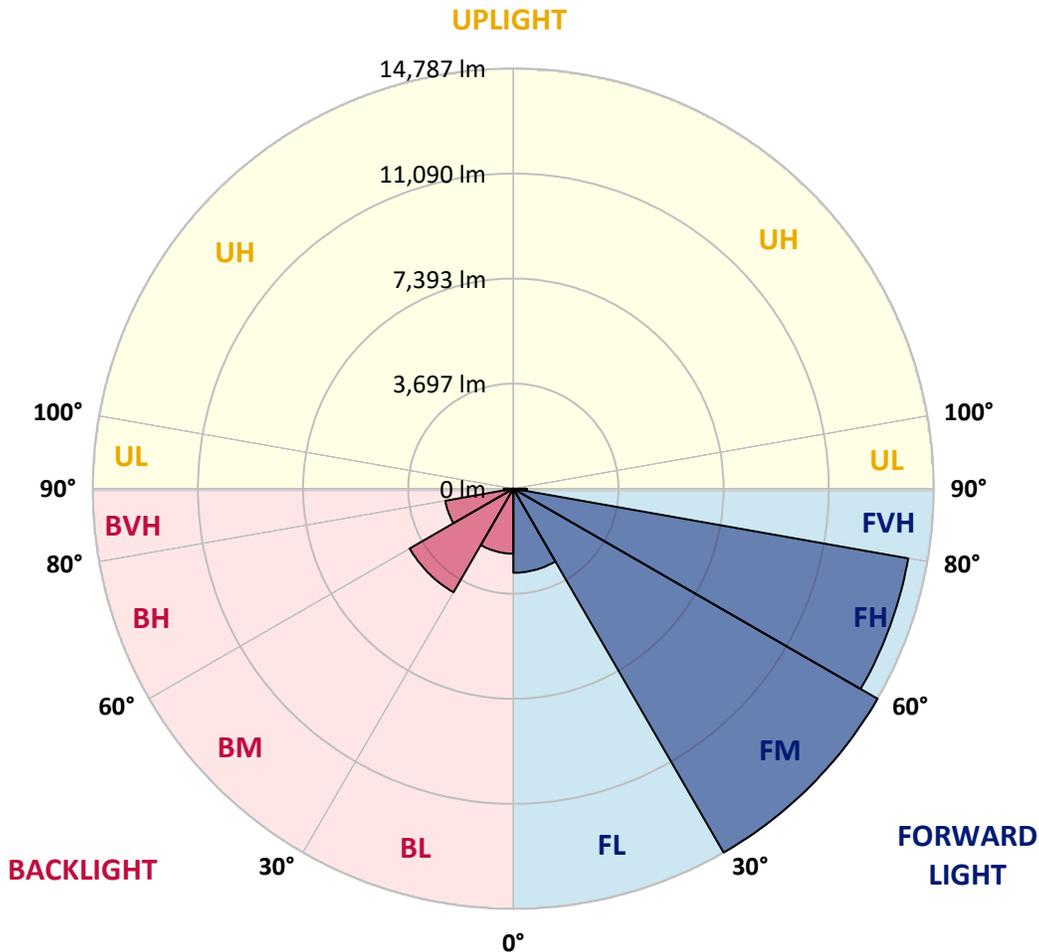
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2960.0	7.1			
FM (30°-60°)	14786.8	35.6			
FH (60°-80°)	14101.1	33.9			G5
FVH (80°-90°)	480.1	1.2			G3/500
BL (0°-30°)	2288.9	5.5	B3/2500		
BM (30°-60°)	4209.4	10.1	B3/5000		
BH (60°-80°)	2428.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	335.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3
2.5°	5471.7	5477.4	5473.1	5484.5	5471.7	5480.2	5473.1	5473.1	5468.8	5455.9	5441.6
5°	5557.6	5569.1	5561.9	5573.4	5557.6	5560.5	5547.6	5547.6	5534.7	5507.5	5478.8
7.5°	5692.3	5705.2	5699.5	5710.9	5689.4	5689.4	5672.2	5670.8	5645.0	5600.6	5567.6
10°	5852.8	5870.0	5864.2	5881.4	5864.2	5870.0	5852.8	5852.8	5818.4	5755.3	5713.8
12.5°	6086.3	6107.8	6092.0	6090.6	6083.4	6094.9	6080.6	6077.7	6046.2	5960.2	5902.9
15°	6398.6	6421.6	6388.6	6385.7	6345.6	6341.3	6341.3	6337.0	6317.0	6213.8	6119.3
17.5°	6758.3	6765.4	6736.8	6690.9	6639.3	6606.4	6602.1	6613.5	6613.5	6493.2	6342.8
20°	7110.7	7123.6	7100.7	7049.1	6983.2	6934.5	6900.1	6923.0	6921.6	6778.3	6564.8
22.5°	7494.7	7524.8	7490.4	7424.5	7347.1	7292.7	7232.5	7252.6	7254.0	7077.8	6782.6
25°	7991.9	7964.6	7943.1	7850.0	7739.7	7683.8	7627.9	7648.0	7642.3	7400.1	7007.6
27.5°	8431.7	8437.4	8408.8	8309.9	8182.4	8059.2	8056.3	8069.2	8047.7	7735.4	7219.6
30°	8943.2	8946.1	8905.9	8817.1	8678.1	8519.1	8481.8	8503.3	8457.5	8053.5	7443.1
32.5°	9451.8	9466.1	9421.7	9314.3	9202.5	9009.1	8934.6	8948.9	8834.3	8378.7	7673.8
35°	9897.4	9917.5	9903.1	9831.5	9709.7	9543.5	9454.7	9446.1	9304.2	8777.0	7979.0
37.5°	10351.6	10370.2	10354.4	10294.3	10245.6	10069.3	10022.0	10022.0	9775.6	9183.9	8367.2
40°	10818.7	10847.3	10828.7	10745.6	10704.0	10623.8	10510.6	10483.4	10216.9	9672.5	9000.5
42.5°	11252.8	11290.0	11364.5	11315.8	11231.3	11242.7	11014.9	11000.6	10805.8	10394.6	9795.7
45°	11868.9	11923.3	12049.4	12012.1	11994.9	11931.9	11661.1	11648.2	11573.7	11366.0	10782.8
47.5°	12540.8	12615.3	12843.1	12850.3	13035.1	12916.2	12548.0	12503.6	12520.8	12529.4	11987.8
50°	13159.8	13241.4	13615.4	13791.6	14227.2	14252.9	13664.1	13624.0	13691.3	13889.0	13391.9
52.5°	13654.1	13757.2	14224.3	14768.7	15515.2	15727.2	15038.1	15008.0	15058.1	15399.1	14979.3
55°	14016.5	14128.3	14636.9	15628.4	16820.4	17194.4	16619.8	16591.2	16622.7	17056.8	16705.8
57.5°	14101.1	14128.3	14866.2	16207.2	17922.2	18820.5	18555.5	18498.2	18343.4	18721.7	18611.4
60°	13704.2	13813.1	14677.0	16410.7	18774.7	20423.8	20578.5	20506.9	20072.8	20382.2	20293.4
62.5°	12899.0	13093.9	13970.7	16101.2	19108.5	21733.3	22562.9	22476.9	21729.0	21929.6	21502.6
65°	11583.7	11666.8	12588.1	15033.8	18684.4	22571.5	24332.3	24289.3	23348.0	23034.2	21726.1
67.5°	9231.2	9387.3	10169.6	12803.0	16949.4	22472.6	25700.6	25696.3	24405.4	23444.0	20933.8
69°	7292.7	7454.6	8199.6	10546.4	14998.0	21568.5	25929.8	25980.0	24703.4	23194.7	19802.0
70°	5814.1	6001.8	6513.3	8883.0	13265.8	20376.5	25739.3	25829.5	24646.1	22783.5	18757.5
72.5°	2474.4	2626.2	2990.1	4579.1	8085.0	15215.7	23534.3	23875.3	23317.9	20852.2	15502.3
75°	1080.3	1127.6	1292.3	1866.9	3589.0	8281.3	18436.6	19067.0	19938.1	17625.6	11547.9
77.5°	790.9	810.9	901.2	1096.0	1610.4	3127.7	11856.0	12222.7	14379.0	12825.9	7083.5
80°	611.8	626.1	696.3	805.2	1051.6	1265.1	5407.2	5722.4	8085.0	6587.8	2950.0
82.5°	487.1	497.2	545.9	593.2	726.4	766.5	1795.2	1991.5	2984.4	1819.6	780.8
85°	452.7	464.2	481.4	432.7	465.6	449.9	776.5	812.4	901.2	714.9	326.7
87.5°	204.9	242.1	477.1	336.7	247.9	197.7	318.1	332.4	373.9	375.4	144.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3	5437.3
2.5°	5450.2	5445.9	5453.0	5435.8	5457.3	5455.9	5448.7	5451.6	5465.9	5464.5	5465.9
5°	5483.1	5480.2	5488.8	5476.0	5501.7	5510.3	5511.8	5524.7	5540.4	5544.7	5544.7
7.5°	5566.2	5566.2	5570.5	5553.3	5570.5	5569.1	5561.9	5574.8	5590.6	5592.0	5590.6
10°	5709.5	5710.9	5703.8	5659.3	5645.0	5606.3	5570.5	5571.9	5592.0	5607.8	5612.1
12.5°	5890.0	5884.3	5852.8	5771.1	5710.9	5632.1	5594.9	5593.4	5613.5	5626.4	5630.7
15°	6096.3	6080.6	5998.9	5865.7	5759.6	5682.3	5622.1	5607.8	5596.3	5582.0	5583.4
17.5°	6291.2	6255.4	6119.3	5934.4	5822.7	5719.5	5603.5	5510.3	5445.9	5408.6	5397.1
20°	6488.9	6418.7	6222.4	5998.9	5857.1	5669.4	5445.9	5256.7	5139.3	5084.8	5074.8
22.5°	6669.4	6556.2	6318.4	6066.2	5829.8	5500.3	5149.3	4874.2	4710.9	4637.8	4643.5
25°	6845.7	6688.1	6418.7	6113.5	5692.3	5202.3	4736.7	4398.5	4209.4	4127.7	4124.9
27.5°	7000.4	6821.3	6527.6	6074.8	5435.8	4778.2	4248.1	3918.6	3761.0	3690.8	3679.3
30°	7178.1	6988.9	6672.3	5927.3	5060.5	4288.2	3771.0	3538.9	3427.1	3356.9	3344.0
32.5°	7394.4	7216.7	6791.2	5659.3	4580.5	3776.7	3398.5	3236.6	3134.8	3056.0	3041.7
35°	7709.6	7517.6	6821.3	5275.4	4053.2	3372.7	3124.8	2958.6	2821.1	2719.3	2709.3
37.5°	8105.0	7894.4	6752.5	4778.2	3541.7	3110.5	2897.0	2692.1	2513.0	2369.8	2346.8
40°	8675.3	8357.2	6562.0	4205.1	3164.9	2908.5	2674.9	2441.4	2219.3	2051.7	2018.7
42.5°	9360.1	8900.2	6269.7	3634.9	2888.4	2703.6	2454.3	2164.9	1952.8	1833.9	1816.7
45°	10231.2	9464.7	5864.2	3136.3	2616.2	2498.7	2216.5	1950.0	1818.2	1730.8	1716.4
47.5°	11225.6	10098.0	5438.7	2730.8	2385.5	2306.7	2025.9	1854.0	1749.4	1680.6	1667.7
50°	12447.7	10812.9	4987.4	2398.4	2153.4	2076.0	1935.6	1801.0	1717.9	1664.8	1652.0
52.5°	13826.0	11619.6	4662.2	2136.2	1961.4	1905.6	1888.4	1772.3	1705.0	1664.8	1652.0
55°	15310.3	12440.5	4311.1	1915.6	1795.2	1811.0	1856.8	1775.2	1729.3	1680.6	1662.0
57.5°	16796.1	13288.7	3920.0	1729.3	1663.4	1740.8	1835.3	1780.9	1742.2	1694.9	1677.7
60°	17970.9	13826.0	3313.9	1573.2	1558.8	1663.4	1783.8	1737.9	1687.8	1689.2	1686.3
62.5°	18519.7	13797.3	2644.8	1434.2	1454.2	1558.8	1700.7	1670.6	1629.0	1684.9	1689.2
65°	18211.6	13109.6	2058.9	1308.1	1342.5	1449.9	1614.7	1637.6	1652.0	1759.4	1773.7
67.5°	16919.3	11771.4	1594.6	1197.8	1240.8	1375.4	1623.3	1783.8	1802.4	1915.6	1914.1
69°	15582.5	10516.3	1385.5	1140.5	1190.6	1394.1	1735.1	1876.9	1806.7	1927.0	1909.8
70°	14462.1	9523.5	1273.7	1101.8	1167.7	1427.0	1809.6	1875.5	1785.2	1888.4	1859.7
72.5°	11138.2	6851.4	1080.3	1030.1	1090.3	1365.4	1831.0	1833.9	1735.1	1755.1	1706.4
75°	7639.4	4329.8	942.7	932.7	972.8	1230.7	1762.3	1752.2	1604.7	1576.0	1535.9
77.5°	4212.3	2199.3	800.9	839.6	866.8	1090.3	1601.8	1587.5	1465.7	1405.5	1391.2
80°	1624.7	962.8	676.3	746.5	763.7	944.2	1404.1	1391.2	1289.5	1212.1	1190.6
82.5°	613.2	504.3	558.8	646.2	640.4	779.4	1189.2	1182.0	1083.2	970.0	935.6
85°	283.7	302.3	442.7	533.0	491.4	577.4	951.3	964.2	843.9	709.2	709.2
87.5°	120.4	169.1	313.8	402.6	331.0	389.7	697.7	666.2	611.8	424.1	398.3
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)