

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: P522921

Luminaire Tested: **GALN-SA9C-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58086 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

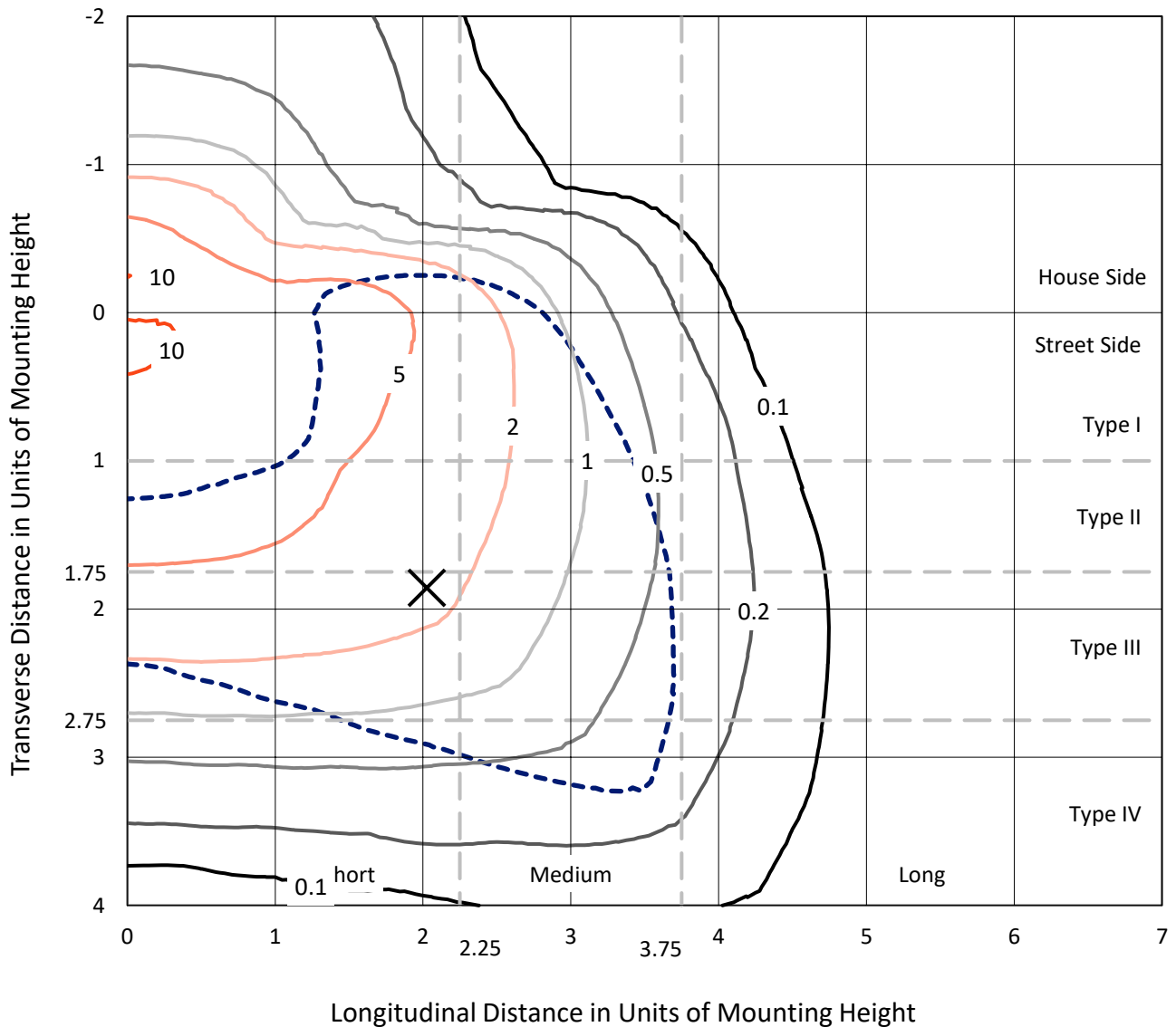
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

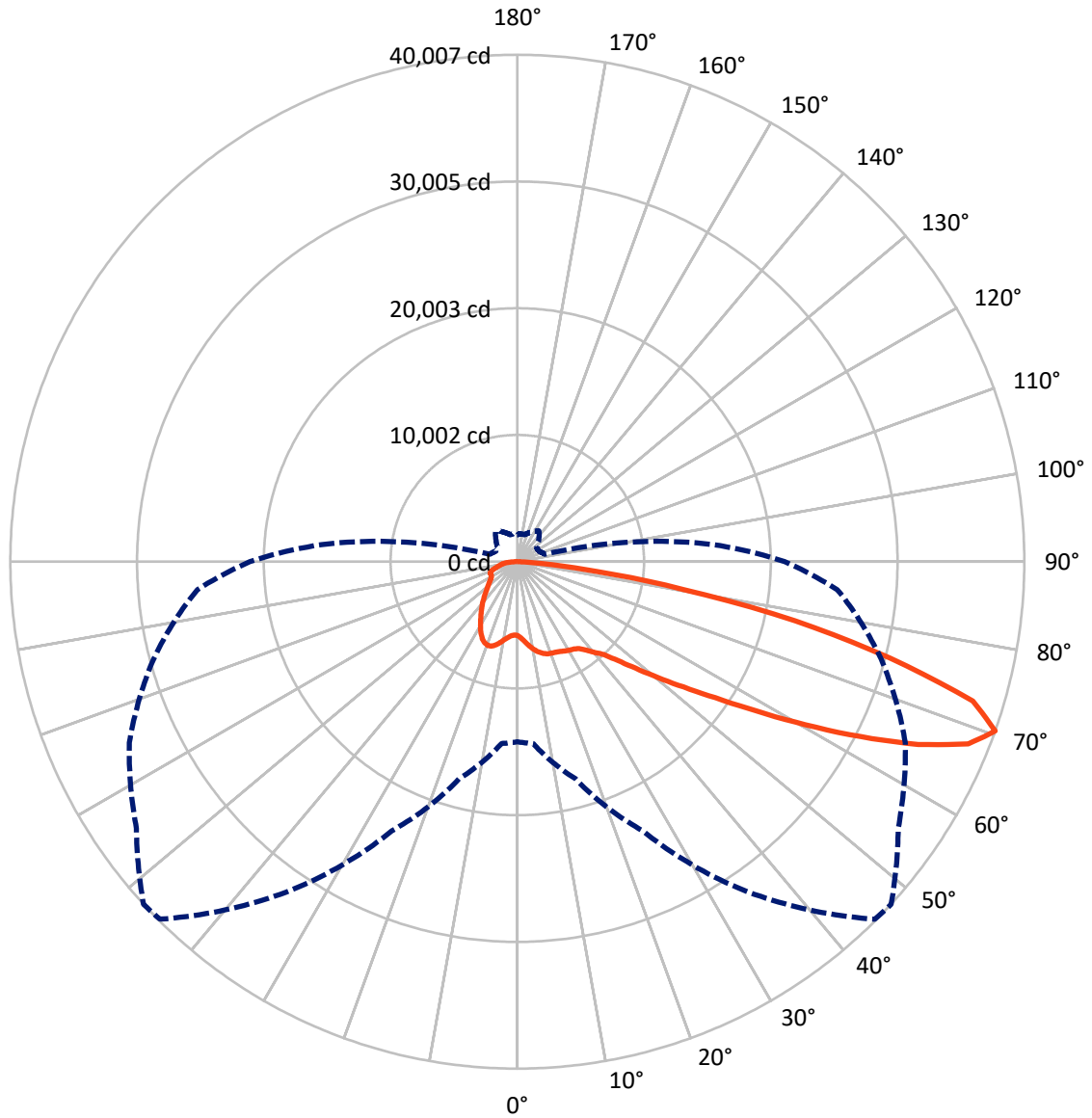
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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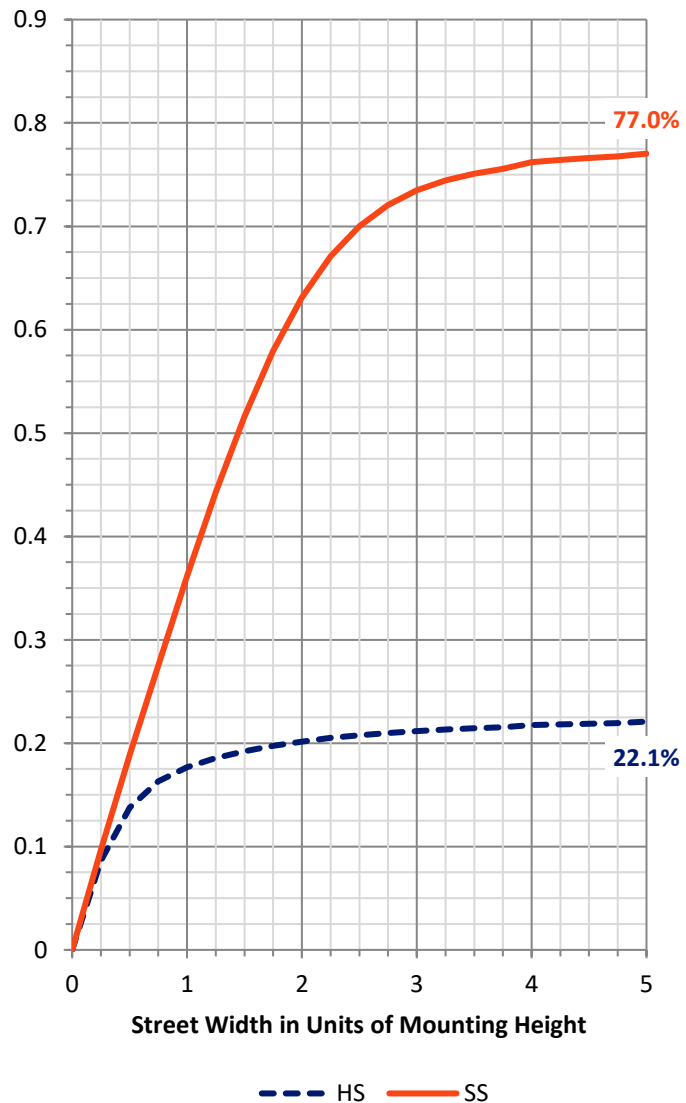
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13151.8	0.0	13151.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	44934.2	0.0	44934.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	58086.0	0.0	58086.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.1	1.0
10°-20°	2009.4	3.5
20°-30°	3341.6	5.8
30°-40°	4736.3	8.2
40°-50°	6991.8	12.0
50°-60°	12110.0	20.8
60°-70°	17105.8	29.4
70°-80°	9833.3	16.9
80°-90°	1356.8	2.3
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°	58086.0	100.0
0°-180°	58086.0	100.0



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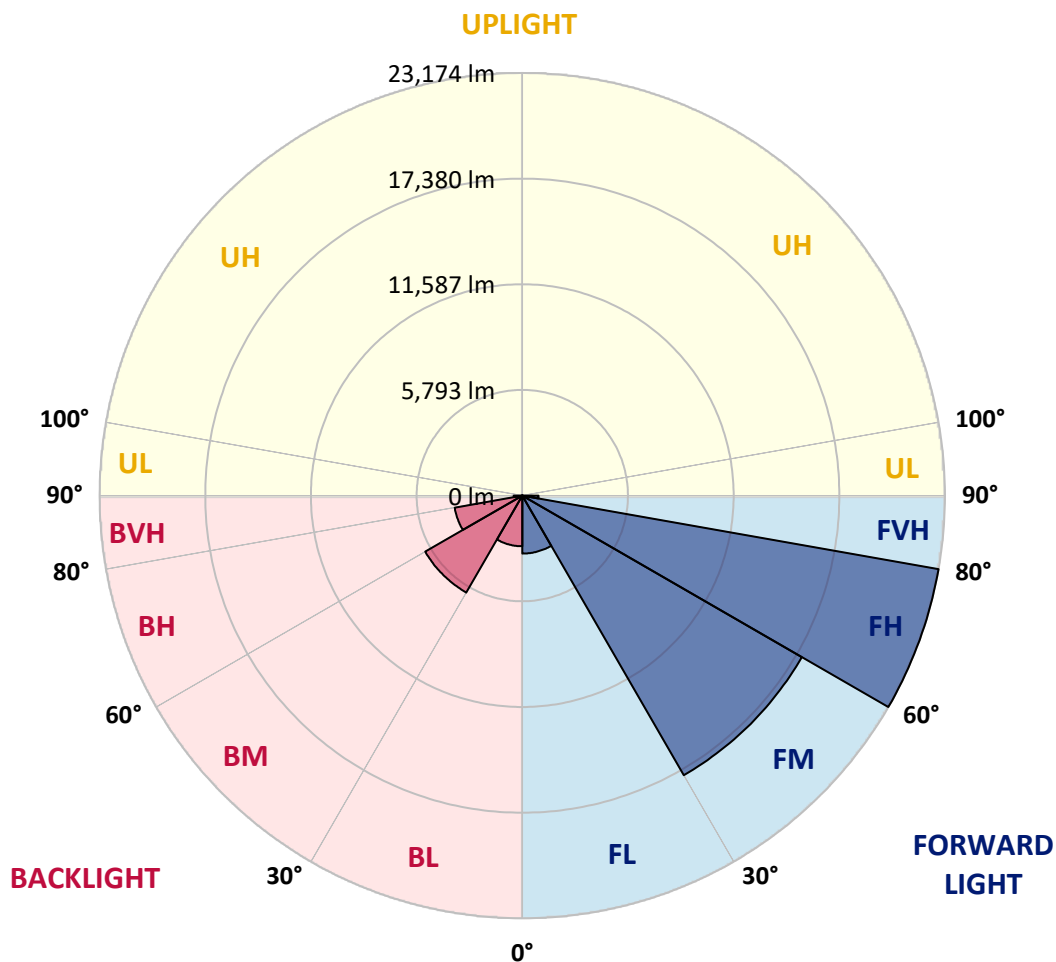
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3176.4	5.5			
FM	(30°-60°)	17697.7	30.5			
FH	(60°-80°)	23173.9	39.9			G5
FVH	(80°-90°)	886.3	1.5			G5
BL	(0°-30°)	2775.8	4.8	B4/5000		
BM	(30°-60°)	6140.3	10.6	B4/8500		
BH	(60°-80°)	3765.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	470.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1
2.5°	6207.2	6185.5	6182.4	6135.7	6110.9	6064.3	6045.6	6002.1	5949.3	5896.4	5846.7
5°	6695.2	6695.2	6673.5	6608.2	6505.6	6400.0	6353.3	6269.4	6120.2	5999.0	5896.4
7.5°	7195.7	7201.9	7158.4	7062.0	6915.9	6745.0	6701.5	6577.1	6365.8	6188.6	6036.3
10°	7627.7	7627.7	7568.7	7438.1	7254.7	7068.2	7024.7	6884.8	6648.6	6427.9	6229.0
12.5°	7957.2	7957.2	7879.5	7708.5	7509.6	7341.8	7292.0	7158.4	6937.7	6692.1	6440.4
15°	8171.7	8156.1	8069.1	7876.4	7683.7	7537.6	7503.4	7391.5	7189.5	6940.8	6657.9
17.5°	8181.0	8174.8	8090.9	7929.2	7761.4	7661.9	7640.2	7565.6	7407.0	7170.8	6872.4
20°	8000.7	8013.1	7957.2	7842.2	7761.4	7717.9	7708.5	7683.7	7571.8	7351.1	7052.7
22.5°	7808.0	7829.8	7776.9	7714.8	7708.5	7752.1	7758.3	7764.5	7693.0	7478.5	7205.0
25°	7761.4	7776.9	7724.1	7668.1	7702.3	7817.3	7842.2	7867.1	7811.1	7630.8	7385.3
27.5°	7997.6	7985.2	7882.6	7761.4	7783.1	7938.6	7972.7	8000.7	7972.7	7817.3	7609.1
30°	8665.9	8625.5	8420.3	8066.0	7954.1	8062.9	8097.1	8174.8	8174.8	8059.8	7851.5
32.5°	9784.9	9707.2	9331.1	8634.8	8246.3	8181.0	8215.2	8342.6	8407.9	8317.8	8090.9
35°	11143.2	11062.4	10524.6	9589.0	8780.9	8417.2	8407.9	8550.9	8724.9	8522.9	8227.6
37.5°	12507.7	12423.8	11777.3	10726.7	9561.1	8914.6	8858.6	8908.3	8982.9	8613.0	8417.2
40°	13872.3	13772.8	13207.1	11998.0	10515.3	9573.5	9427.4	9203.6	9172.5	8908.3	8784.0
42.5°	15224.4	15134.2	14848.3	13424.7	11659.2	10216.9	9993.1	9607.7	9725.8	9567.3	9458.5
45°	16588.9	16595.1	16290.5	15025.4	13039.2	11404.3	11102.8	10499.8	10779.5	10720.5	10782.6
47.5°	17798.0	17782.5	17673.7	16579.6	14751.9	12933.6	12545.0	11845.7	12324.3	12541.9	13017.5
50°	18969.8	18960.5	18966.7	18342.0	16741.2	14751.9	14323.0	13589.4	14668.0	15423.3	16275.0
52.5°	20648.3	20701.2	20325.1	20160.3	19159.4	16899.7	16427.3	15668.8	17437.5	18627.9	20290.9
55°	22333.0	22289.5	21994.2	22165.2	21689.6	19442.3	18948.1	18345.1	20520.9	21823.2	24322.3
57.5°	23324.5	23340.1	23641.6	24477.7	24813.4	22612.7	22165.2	21698.9	23986.6	24909.8	27909.3
60°	24216.6	24288.1	25155.3	26734.3	27645.1	26507.4	26109.6	25655.8	27166.4	27533.2	31023.8
62.5°	24496.4	24717.1	26230.8	28593.1	30405.2	30902.5	30408.3	29407.4	30193.8	30050.9	33134.3
65°	23100.7	23402.2	26115.8	29289.3	32870.1	35073.8	34759.9	32901.2	32773.7	31912.7	33479.3
67.5°	19426.8	19728.3	23212.6	27828.4	33889.6	38685.7	38371.7	35449.9	34340.3	32086.8	30868.3
70°	14214.2	14403.8	17735.9	23430.2	31841.2	39897.9	40006.7	36693.3	33780.8	29721.4	25344.9
72.5°	8190.3	8609.9	10944.3	16483.2	26013.2	36833.1	37588.4	34107.2	30243.6	24794.8	17720.3
75°	3521.7	3531.0	5060.3	9091.7	17617.7	29606.4	30336.8	28272.9	23750.4	17145.3	9461.6
77.5°	1675.4	1706.4	2225.5	4059.4	9697.8	20455.6	22426.2	19973.8	15190.2	8236.9	3574.5
80°	1087.9	1109.7	1361.4	2014.2	4755.7	11861.2	13235.1	11522.4	6701.5	2943.5	1541.7
82.5°	659.0	665.2	910.7	1230.9	2617.2	5371.1	6331.6	5001.2	2859.6	1762.4	907.6
85°	401.0	404.1	553.3	761.5	1588.3	1855.6	1905.4	1889.8	1678.5	1153.2	484.9
87.5°	192.7	198.9	286.0	360.6	624.8	575.0	543.9	631.0	792.6	621.7	208.3
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°	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1	5831.1
2.5°	5824.9	5815.6	5793.8	5784.5	5778.3	5781.4	5778.3	5778.3	5781.4	5781.4	5781.4
5°	5852.9	5837.4	5803.2	5803.2	5821.8	5865.3	5905.7	5936.8	5971.0	5967.9	5967.9
7.5°	5974.1	5946.1	5905.7	5918.2	5964.8	6033.2	6104.7	6173.0	6241.4	6247.6	6244.5
10°	6151.3	6123.3	6079.8	6095.3	6169.9	6272.5	6362.7	6462.1	6536.7	6558.5	6552.3
12.5°	6353.3	6297.4	6260.1	6303.6	6421.7	6558.5	6645.5	6720.1	6772.9	6804.0	6791.6
15°	6558.5	6505.6	6462.1	6552.3	6695.2	6822.7	6866.2	6878.6	6888.0	6919.0	6912.8
17.5°	6757.4	6685.9	6670.4	6788.5	6925.3	6981.2	6956.3	6903.5	6863.1	6888.0	6884.8
20°	6934.6	6878.6	6872.4	6990.5	7043.4	6990.5	6884.8	6791.6	6720.1	6726.3	6723.2
22.5°	7102.4	7058.9	7065.1	7114.9	7030.9	6850.7	6676.6	6549.1	6471.4	6487.0	6496.3
25°	7288.9	7245.4	7260.9	7180.1	6903.5	6589.6	6337.8	6229.0	6197.9	6229.0	6250.8
27.5°	7531.4	7503.4	7494.1	7183.2	6676.6	6204.1	5918.2	5877.8	5905.7	5974.1	6008.3
30°	7792.5	7792.5	7742.7	7130.4	6365.8	5741.0	5492.3	5498.5	5594.9	5691.3	5725.5
32.5°	8044.2	8097.1	7941.7	6987.4	5964.8	5290.3	5100.7	5106.9	5190.8	5308.9	5340.0
35°	8252.5	8404.8	8112.6	6726.3	5492.3	4911.1	4768.1	4684.2	4687.3	4777.4	4802.3
37.5°	8538.4	8821.3	8212.1	6337.8	4988.8	4587.8	4426.2	4280.1	4183.7	4146.4	4146.4
40°	9035.8	9452.3	8236.9	5762.8	4513.2	4280.1	4050.1	3876.0	3689.5	3521.7	3490.6
42.5°	9878.1	10403.4	8187.2	5100.7	4084.3	3941.3	3717.5	3503.0	3245.0	3008.8	2990.2
45°	11370.1	11640.5	8053.6	4413.8	3702.0	3614.9	3397.4	3164.2	2890.7	2679.3	2663.8
47.5°	13760.4	13378.0	7876.4	3804.5	3353.8	3329.0	3161.1	2890.7	2617.2	2471.1	2455.5
50°	17251.0	16113.3	7851.5	3363.2	3074.1	3086.5	2949.8	2701.1	2461.8	2340.5	2321.9
52.5°	21453.4	19417.4	8016.3	3052.3	2828.5	2875.2	2806.8	2576.8	2365.4	2262.8	2244.2
55°	25531.4	22388.9	8115.7	2809.9	2598.5	2685.6	2694.9	2502.2	2309.5	2206.9	2194.4
57.5°	28841.7	24626.9	7674.3	2589.2	2399.6	2533.2	2601.6	2458.7	2281.5	2203.8	2191.3
60°	31145.0	25683.7	6418.6	2393.4	2253.5	2412.0	2567.4	2461.8	2349.9	2359.2	2365.4
62.5°	31878.5	25214.4	4814.7	2247.3	2154.0	2371.6	2623.4	2589.2	2474.2	2545.7	2558.1
65°	30663.2	23274.8	3490.6	2132.3	2067.0	2399.6	2791.2	2682.4	2430.7	2483.5	2483.5
67.5°	26594.5	20051.5	2716.6	2026.6	1967.5	2452.4	2959.1	2673.1	2328.1	2390.3	2334.3
70°	21095.9	15510.3	2262.8	1908.5	1861.9	2374.7	2974.6	2576.8	2206.9	2219.3	2113.6
72.5°	13999.7	10198.3	1945.8	1796.6	1700.2	2135.4	2847.2	2452.4	2088.8	2017.3	1911.6
75°	6860.0	5085.1	1697.1	1656.7	1488.9	1858.8	2673.1	2334.3	1961.3	1849.4	1790.4
77.5°	2657.6	2163.4	1448.5	1479.5	1296.2	1638.1	2443.1	2166.5	1793.5	1641.2	1594.5
80°	1289.9	1227.8	1187.4	1234.0	1066.1	1395.6	2231.7	2020.4	1638.1	1470.2	1401.8
82.5°	801.9	758.4	910.7	960.5	820.6	1274.4	2116.7	1896.1	1442.2	1218.4	1162.5
85°	407.2	435.2	609.2	655.8	587.5	1013.3	1743.7	1423.6	1041.3	864.1	870.3
87.5°	155.4	208.3	320.2	345.0	313.9	534.6	960.5	829.9	668.3	453.8	419.6
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)