

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: P530766

Luminaire Tested: **GALN-SA6A-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21056 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

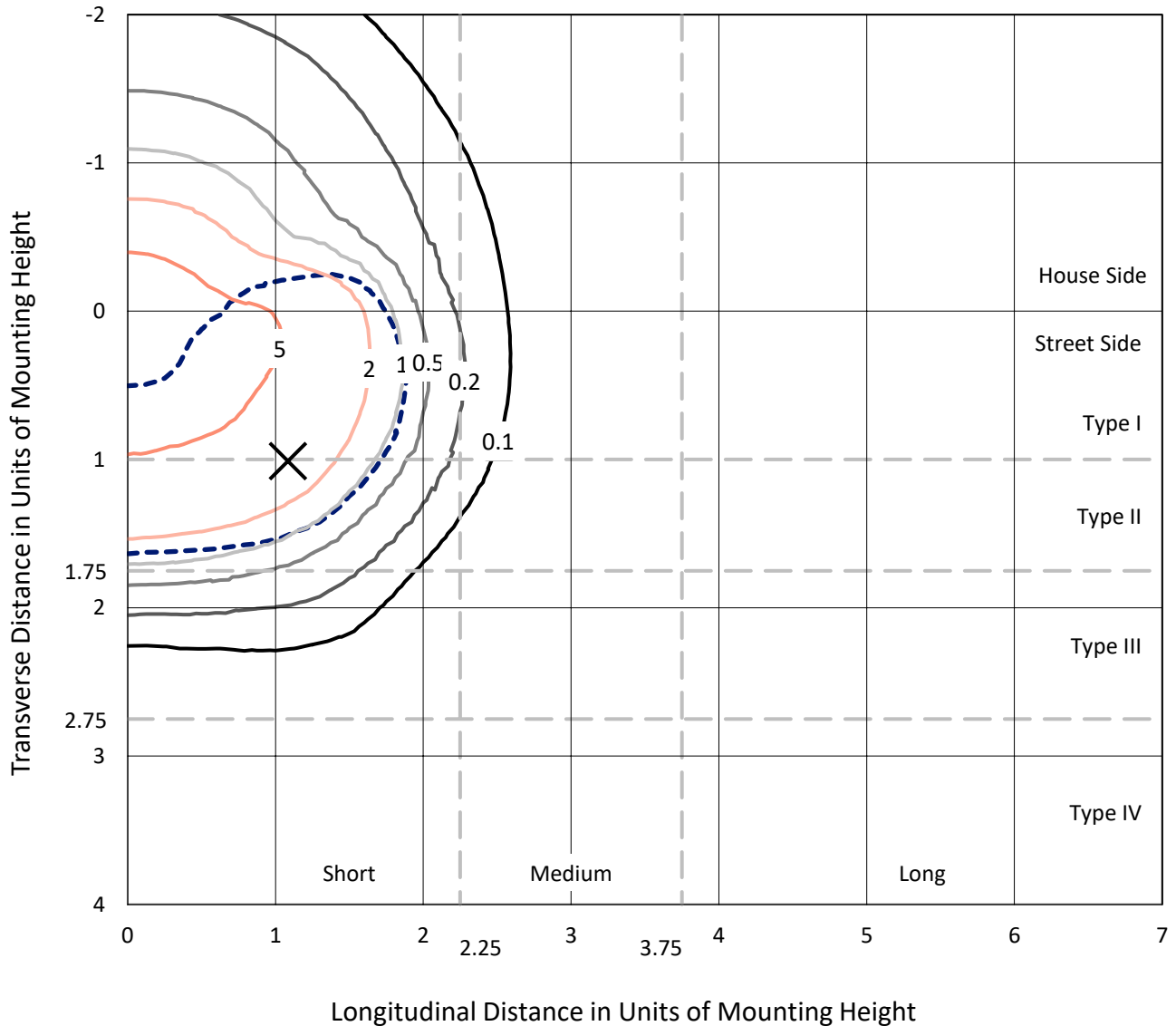
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

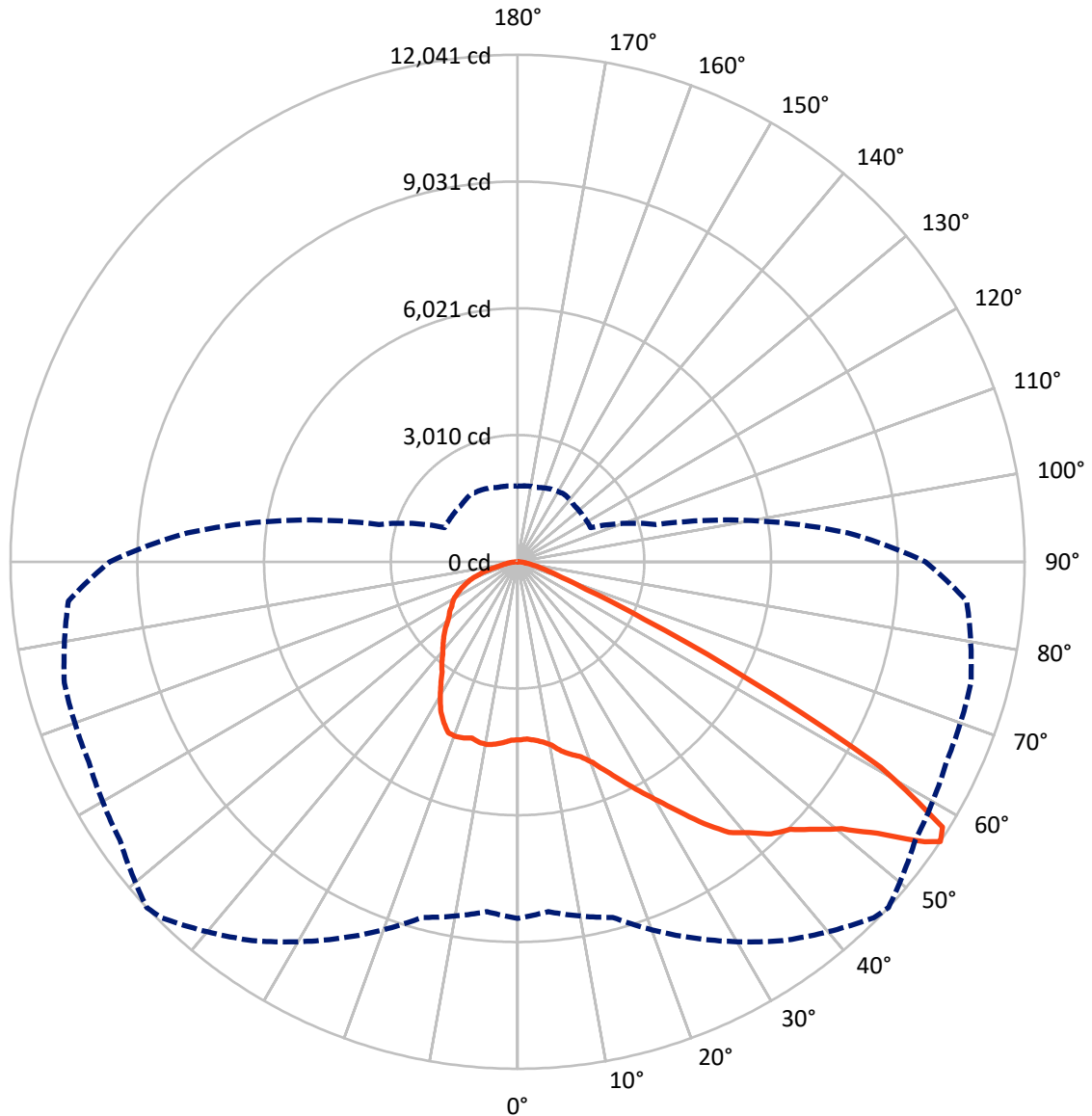
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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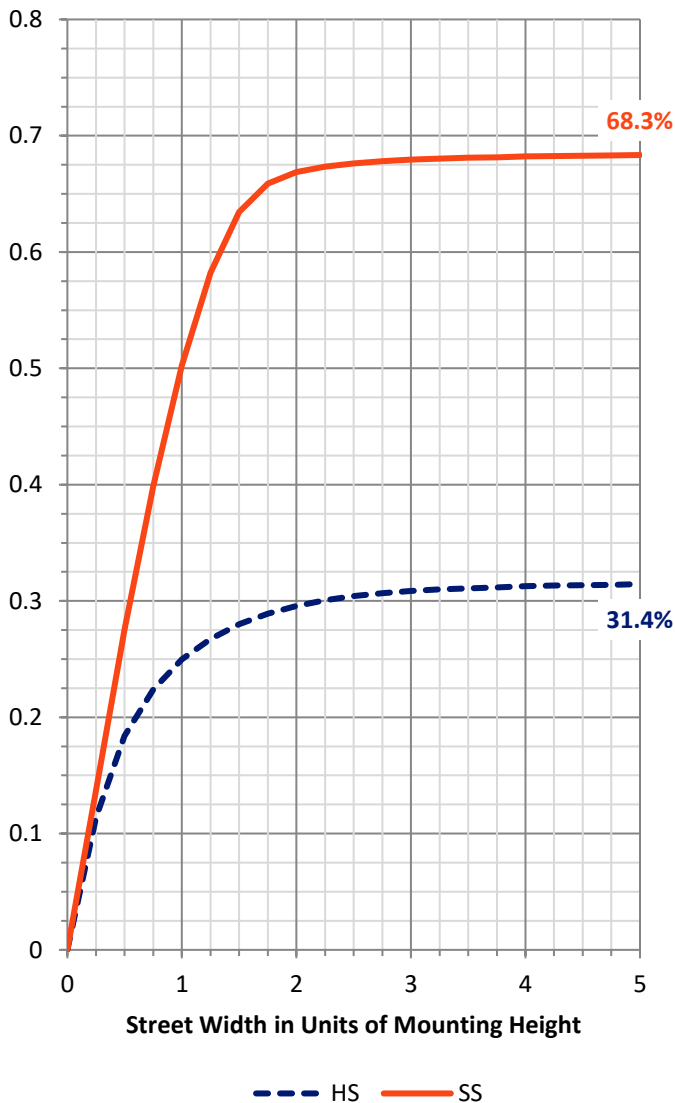
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6672.4	0.0	6672.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	14383.6	0.0	14383.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	21056.0	0.0	21056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.1	2.0
10°-20°	1300.0	6.2
20°-30°	2298.1	10.9
30°-40°	3451.6	16.4
40°-50°	4737.0	22.5
50°-60°	5643.6	26.8
60°-70°	2415.1	11.5
70°-80°	683.5	3.2
80°-90°	115.0	0.5
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°	21056.0	100.0
0°-180°	21056.0	100.0

Coefficient of Utilization



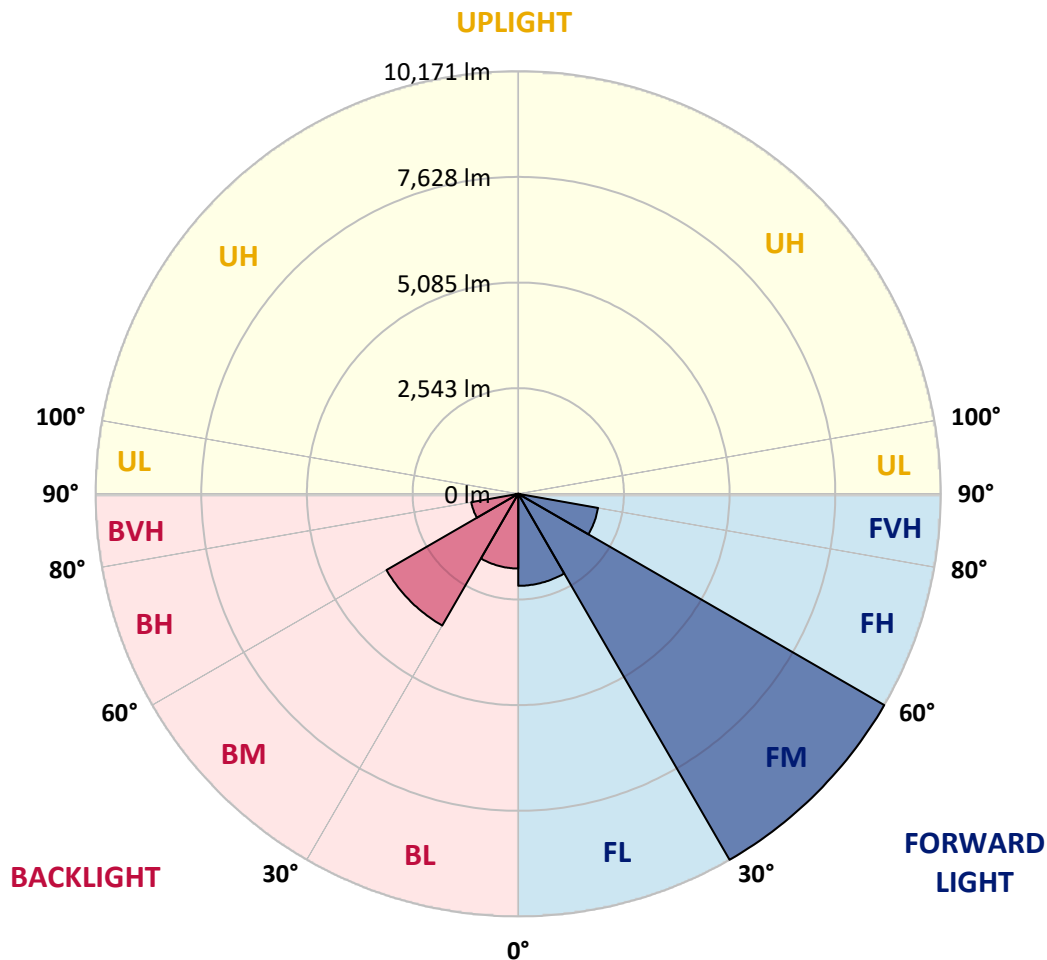
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2213.7	10.5			
FM (30°-60°)	10170.5	48.3			
FH (60°-80°)	1950.5	9.3			G2/5000
FVH (80°-90°)	48.8	0.2			G1/100
BL (0°-30°)	1796.5	8.5	B3/2500		
BM (30°-60°)	3661.7	17.4	B3/5000		
BH (60°-80°)	1148.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	66.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5
2.5°	4213.4	4205.3	4200.0	4242.9	4226.8	4229.5	4213.4	4229.5	4240.3	4216.1	4251.0
5°	4205.3	4229.5	4208.0	4221.5	4256.4	4245.6	4256.4	4288.6	4280.5	4272.5	4261.7
7.5°	4280.5	4283.2	4299.3	4304.7	4315.4	4304.7	4320.8	4350.4	4342.3	4296.6	4302.0
10°	4387.9	4393.3	4396.0	4425.5	4444.3	4447.0	4428.2	4401.4	4398.7	4460.5	4417.5
12.5°	4511.5	4498.1	4530.3	4541.0	4562.5	4586.7	4610.8	4554.4	4589.4	4592.0	4541.0
15°	4691.4	4704.8	4667.2	4667.2	4675.3	4678.0	4745.1	4718.3	4712.9	4683.3	4704.8
17.5°	4959.9	4868.6	4866.0	4828.4	4823.0	4844.5	4868.6	4890.1	4962.6	4903.5	4788.1
20°	5156.0	5177.5	5099.6	5053.9	5062.0	5110.3	5086.2	5182.8	5233.9	5137.2	5024.4
22.5°	5502.4	5429.9	5448.7	5346.6	5354.7	5405.7	5403.0	5502.4	5531.9	5378.9	5215.1
25°	5736.0	5717.2	5733.3	5652.8	5663.5	5703.8	5768.2	5932.1	5883.7	5714.5	5335.9
27.5°	6077.1	6039.5	6026.0	5996.5	5985.8	6093.2	6168.4	6342.9	6308.0	6061.0	5550.7
30°	6426.2	6402.0	6415.4	6294.6	6337.6	6565.8	6587.3	6826.3	6810.2	6375.1	5789.7
32.5°	6667.9	6681.3	6705.5	6638.3	6829.0	7011.6	7084.1	7355.3	7368.7	6914.9	6251.6
35°	7057.2	7011.6	7025.0	7102.9	7191.5	7524.5	7642.7	7822.6	7935.4	7481.5	6694.7
37.5°	7301.6	7349.9	7293.6	7417.1	7648.0	8048.2	8155.6	8340.9	8459.0	8040.1	7298.9
40°	7682.9	7605.1	7645.3	7734.0	7970.3	8491.2	8461.7	8652.4	8690.0	8515.4	7862.9
42.5°	8093.8	8056.2	7999.8	8201.2	8399.9	8778.6	8837.7	8749.0	8939.7	8980.0	8668.5
45°	8585.2	8630.9	8638.9	8644.3	8818.9	9149.2	9068.6	8990.7	9210.9	9503.6	9168.0
47.5°	9041.8	8896.7	9001.5	9146.5	9393.5	9396.2	9490.2	9304.9	9538.6	9799.0	9619.1
50°	9194.8	9125.0	9264.6	9538.6	9919.9	9960.2	9970.9	9707.7	9828.6	10035.4	9774.9
52.5°	9135.7	9111.6	9468.7	9893.0	10451.6	10655.7	10709.4	10384.5	10451.6	10357.6	10118.6
55°	8853.8	8926.3	9286.1	10150.8	11007.5	11638.5	11740.6	11329.7	10902.7	10975.2	10712.1
56°	8467.1	8340.9	8743.7	9858.1	10983.3	11958.1	12041.3	11528.4	11238.4	11144.4	10706.7
57.5°	7183.5	7019.6	7548.7	8869.9	10373.7	11837.3	11899.0	11611.7	11182.0	10991.4	9925.3
60°	4205.3	4285.9	4957.3	6117.3	8002.5	9705.0	9911.8	10121.3	9833.9	8980.0	7387.5
62.5°	2030.2	1979.1	2459.8	3507.1	4876.7	6195.2	6133.5	6721.6	7043.8	6380.5	4664.5
65°	1063.4	1058.0	1342.7	1914.7	2680.0	3254.7	3311.1	3628.0	4071.1	3286.9	2368.5
67.5°	781.5	802.9	945.3	1345.4	1724.0	1758.9	1750.9	1909.3	1952.3	1651.5	1455.5
70°	612.3	623.0	727.7	1023.1	1283.6	1149.4	1125.2	1144.0	1270.2	1323.9	1259.5
72.5°	443.1	453.8	542.5	690.1	802.9	784.1	800.3	905.0	1060.7	1117.1	1050.0
75°	295.4	303.5	351.8	421.6	475.3	512.9	542.5	663.3	808.3	840.5	808.3
77.5°	204.1	212.1	244.4	298.1	303.5	327.6	338.4	394.8	483.4	523.7	502.2
80°	115.5	115.5	131.6	153.1	188.0	220.2	225.6	271.2	311.5	338.4	343.7
82.5°	53.7	56.4	69.8	94.0	123.5	153.1	158.4	188.0	217.5	244.4	252.4
85°	26.9	29.5	40.3	56.4	75.2	91.3	88.6	91.3	96.7	91.3	94.0
87.5°	8.1	8.1	10.7	13.4	10.7	13.4	13.4	16.1	18.8	21.5	24.2
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°	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5	4229.5
2.5°	4253.7	4261.7	4208.0	4259.1	4240.3	4237.6	4275.2	4269.8	4283.2	4277.8	4245.6
5°	4256.4	4237.6	4294.0	4242.9	4267.1	4318.1	4283.2	4363.8	4323.5	4350.4	4291.3
7.5°	4339.6	4345.0	4334.2	4355.7	4345.0	4369.2	4350.4	4369.2	4336.9	4339.6	4393.3
10°	4412.1	4396.0	4414.8	4387.9	4406.7	4398.7	4355.7	4342.3	4353.0	4339.6	4374.5
12.5°	4546.4	4516.8	4503.4	4471.2	4449.7	4369.2	4302.0	4264.4	4315.4	4323.5	4307.4
15°	4683.3	4686.0	4624.3	4551.8	4417.5	4296.6	4312.8	4326.2	4326.2	4347.7	4307.4
17.5°	4769.3	4769.3	4712.9	4567.9	4430.9	4361.1	4345.0	4302.0	4264.4	4259.1	4256.4
20°	4919.7	4874.0	4745.1	4565.2	4425.5	4393.3	4272.5	4170.4	4092.6	4065.7	4063.0
22.5°	5091.5	4976.1	4796.1	4570.6	4417.5	4371.8	4146.3	3993.2	3853.6	3794.5	3802.5
25°	5250.0	5064.7	4825.7	4546.4	4387.9	4167.7	3915.3	3703.2	3558.2	3509.8	3485.7
27.5°	5360.1	5158.7	4825.7	4567.9	4277.8	3939.5	3681.7	3410.5	3284.2	3252.0	3257.4
30°	5507.8	5276.8	4908.9	4522.2	4057.6	3644.1	3335.3	3158.0	3082.8	3056.0	3074.8
32.5°	5854.2	5585.6	5024.4	4412.1	3797.2	3348.7	3099.0	2999.6	2889.5	2835.8	2817.0
35°	6230.1	5878.3	5137.2	4226.8	3504.5	3080.2	2924.4	2833.1	2701.5	2642.4	2653.2
37.5°	6761.8	6254.3	5145.2	3920.7	3187.6	2929.8	2787.4	2645.1	2537.7	2446.4	2419.5
40°	7478.8	6767.2	5126.4	3598.4	2932.5	2752.5	2647.8	2470.6	2349.7	2285.3	2298.7
42.5°	8109.9	7368.7	5048.6	3233.2	2701.5	2631.7	2513.5	2339.0	2220.8	2153.7	2148.3
45°	8641.6	7811.8	4900.9	2921.7	2508.2	2497.4	2360.5	2226.2	2132.2	2070.4	2097.3
47.5°	9133.1	8169.0	4678.0	2610.2	2330.9	2352.4	2220.8	2137.6	2078.5	2022.1	2019.4
50°	9310.3	8163.6	4481.9	2352.4	2188.6	2177.9	2172.5	2083.9	2022.1	1973.8	1995.3
52.5°	9605.7	8254.9	4269.8	2175.2	2059.7	2062.4	2081.2	2016.7	1946.9	1917.4	1944.2
55°	10030.0	8268.4	3802.5	1968.4	1952.3	1971.1	1971.1	1928.1	1869.0	1844.9	1831.4
56°	9683.6	7868.2	3410.5	1914.7	1898.6	1898.6	1949.6	1901.3	1828.8	1810.0	1793.8
57.5°	8931.7	6893.4	2854.6	1850.2	1826.1	1863.7	1890.5	1839.5	1772.4	1745.5	1761.6
60°	6160.3	4664.5	2145.6	1710.6	1710.6	1772.4	1793.8	1718.7	1689.1	1686.4	1665.0
62.5°	3595.8	2717.6	1678.4	1584.4	1589.8	1640.8	1656.9	1613.9	1576.3	1622.0	1643.5
65°	1906.6	1622.0	1439.4	1450.1	1452.8	1493.1	1562.9	1560.2	1557.5	1571.0	1573.6
67.5°	1380.3	1348.1	1307.8	1297.0	1302.4	1332.0	1401.8	1455.5	1452.8	1420.6	1396.4
70°	1229.9	1184.3	1160.1	1162.8	1141.3	1176.2	1232.6	1267.5	1205.7	1168.2	1152.0
72.5°	1023.1	1009.7	993.6	996.3	953.3	945.3	880.8	880.8	864.7	854.0	872.8
75°	781.5	776.1	784.1	770.7	725.1	676.7	639.1	604.2	550.5	529.0	518.3
77.5°	494.1	510.2	529.0	499.5	480.7	445.8	408.2	373.3	330.3	306.1	306.1
80°	335.7	349.1	362.5	357.2	335.7	303.5	273.9	236.3	206.8	188.0	185.3
82.5°	255.1	265.9	284.7	263.2	241.7	214.8	190.7	163.8	137.0	115.5	115.5
85°	91.3	104.7	115.5	126.2	134.3	137.0	118.2	96.7	77.9	61.8	59.1
87.5°	24.2	26.9	29.5	26.9	26.9	26.9	29.5	26.9	24.2	18.8	18.8
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)