

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: P651972

Luminaire Tested: **GALN-SA6A-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651972
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-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 19444.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

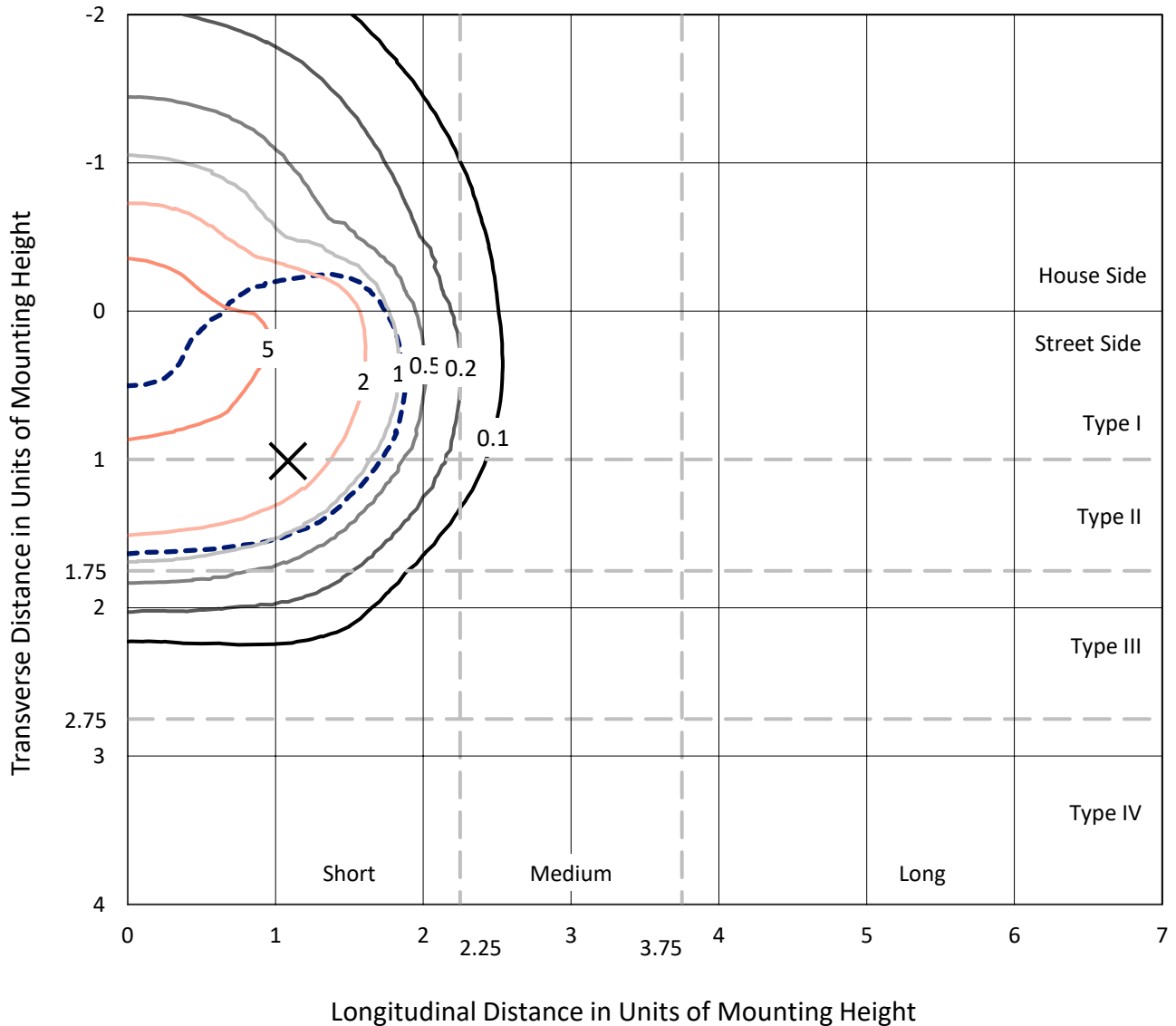
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

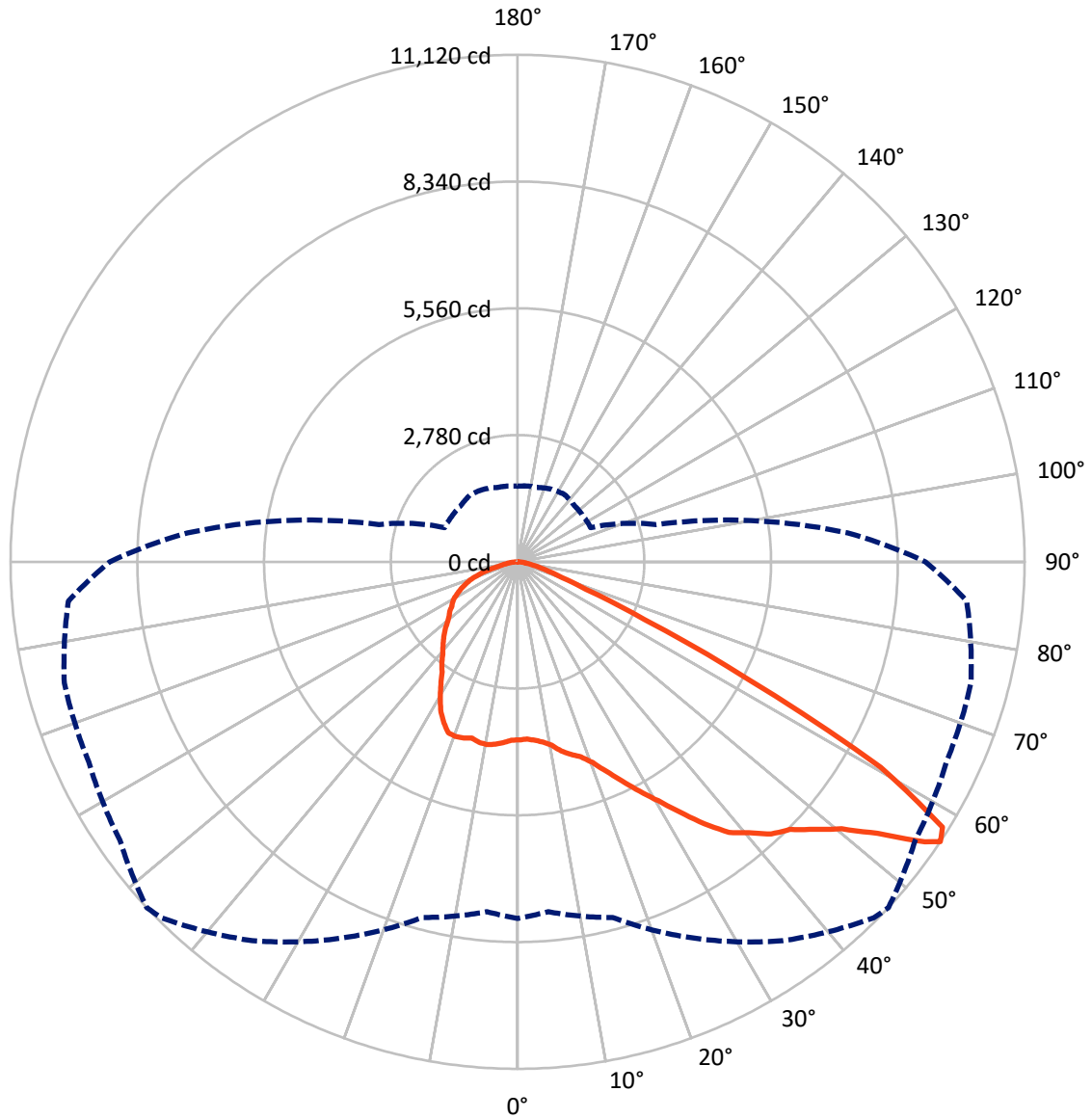
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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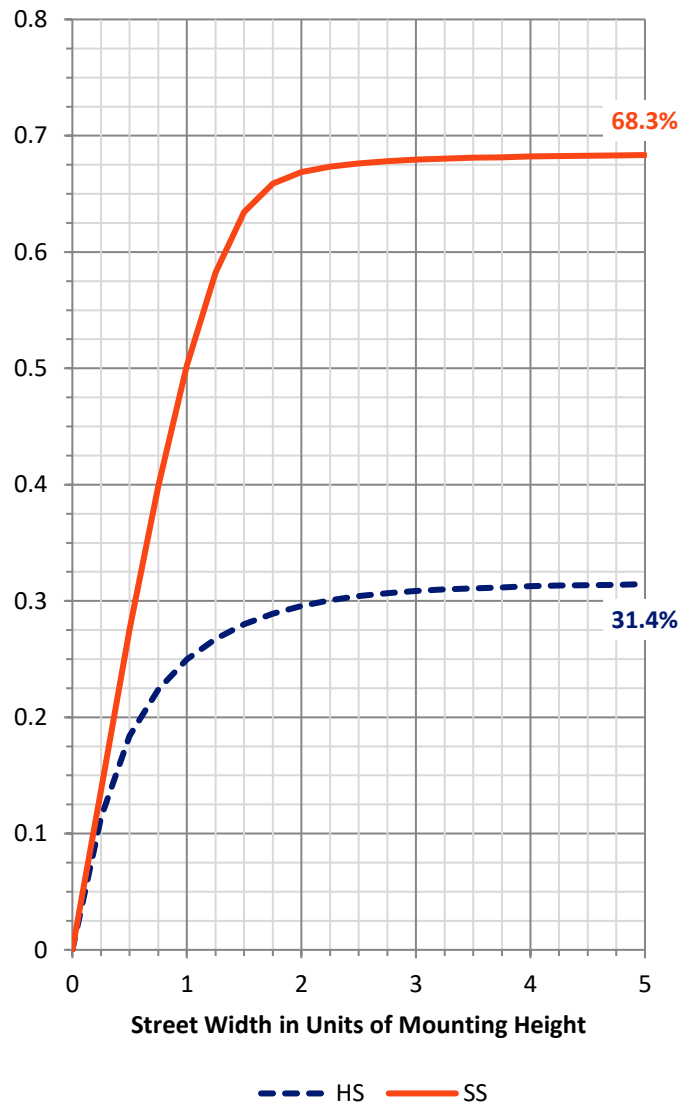
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6161.8	0.0	6161.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13283.0	0.0	13283.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	19444.8	0.0	19444.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	2.0
10°-20°	1200.5	6.2
20°-30°	2122.2	10.9
30°-40°	3187.5	16.4
40°-50°	4374.6	22.5
50°-60°	5211.7	26.8
60°-70°	2230.3	11.5
70°-80°	631.2	3.2
80°-90°	106.2	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°	19444.8	100.0
0°-180°	19444.8	100.0

Coefficient of Utilization



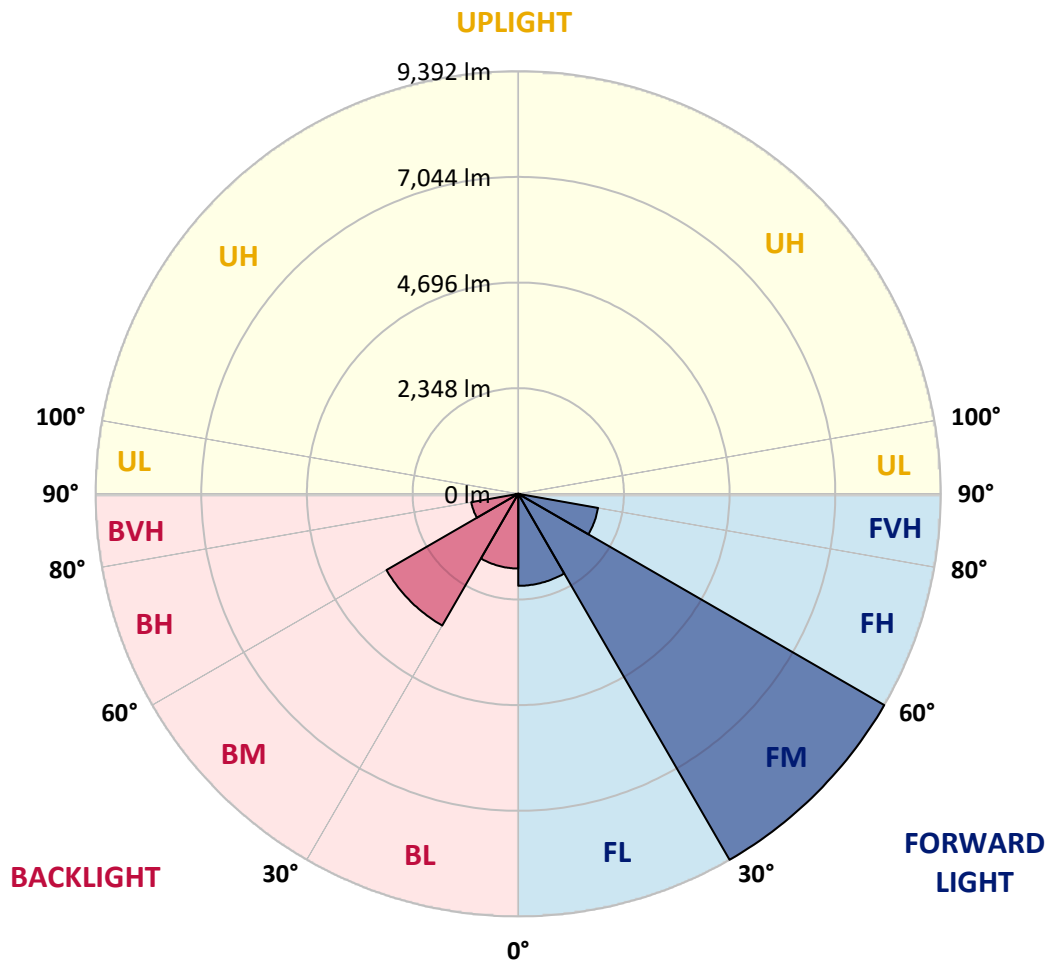
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2044.3	10.5			
FM (30°-60°)	9392.3	48.3			
FH (60°-80°)	1801.3	9.3			G2/5000
FVH (80°-90°)	45.1	0.2			G1/100
BL (0°-30°)	1659.0	8.5	B3/2500		
BM (30°-60°)	3381.5	17.4	B3/5000		
BH (60°-80°)	1060.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	61.1	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°	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9
2.5°	3891.0	3883.6	3878.6	3918.3	3903.4	3905.9	3891.0	3905.9	3915.8	3893.5	3925.7
5°	3883.6	3905.9	3886.0	3898.5	3930.7	3920.7	3930.7	3960.4	3953.0	3945.6	3935.6
7.5°	3953.0	3955.5	3970.4	3975.3	3985.2	3975.3	3990.2	4017.5	4010.1	3967.8	3972.8
10°	4052.2	4057.2	4059.6	4086.9	4104.2	4106.8	4089.4	4064.6	4062.1	4119.1	4079.4
12.5°	4166.2	4153.9	4183.6	4193.6	4213.4	4235.7	4258.0	4205.9	4238.1	4240.7	4193.6
15°	4332.4	4344.8	4310.1	4310.1	4317.5	4320.0	4382.0	4357.2	4352.3	4324.9	4344.8
17.5°	4580.4	4496.1	4493.6	4458.9	4453.9	4473.8	4496.1	4515.9	4582.9	4528.3	4421.6
20°	4761.4	4781.3	4709.3	4667.2	4674.6	4719.3	4697.0	4786.2	4833.3	4744.1	4639.9
22.5°	5081.3	5014.4	5031.7	4937.5	4944.9	4992.1	4989.6	5081.3	5108.7	4967.3	4816.0
25°	5297.1	5279.7	5294.6	5220.3	5230.1	5267.4	5326.8	5478.1	5433.4	5277.3	4927.6
27.5°	5612.1	5577.3	5564.9	5537.6	5527.7	5627.0	5696.3	5857.6	5825.4	5597.2	5126.0
30°	5934.4	5912.1	5924.5	5812.9	5852.6	6063.4	6083.2	6304.0	6289.1	5887.3	5346.7
32.5°	6157.6	6170.0	6192.4	6130.3	6306.4	6475.0	6542.0	6792.5	6804.9	6385.8	5773.2
35°	6517.2	6475.0	6487.5	6559.4	6641.2	6948.7	7057.8	7224.0	7328.1	6909.1	6182.4
37.5°	6742.9	6787.5	6735.4	6849.5	7062.8	7432.3	7531.5	7702.6	7811.7	7424.9	6740.4
40°	7095.0	7023.1	7060.3	7142.1	7360.3	7841.5	7814.2	7990.3	8025.0	7863.8	7261.2
42.5°	7474.5	7439.7	7387.7	7573.6	7757.1	8106.8	8161.4	8079.6	8255.6	8292.8	8005.1
45°	7928.3	7970.4	7977.9	7982.9	8144.0	8449.0	8374.7	8302.8	8506.1	8776.4	8466.4
47.5°	8349.9	8216.0	8312.7	8446.6	8674.7	8677.2	8764.0	8592.9	8808.6	9049.2	8883.1
50°	8491.2	8426.7	8555.7	8808.6	9160.8	9198.0	9207.9	8964.9	9076.5	9267.4	9026.9
52.5°	8436.7	8414.4	8744.1	9136.0	9651.8	9840.3	9889.9	9589.8	9651.8	9565.0	9344.4
55°	8176.3	8243.2	8575.5	9374.0	10165.2	10748.0	10842.2	10462.7	10068.5	10135.4	9892.3
56°	7819.2	7702.6	8074.6	9103.7	10142.9	11043.1	11120.0	10646.3	10378.4	10291.7	9887.4
57.5°	6633.7	6482.5	6971.0	8191.2	9579.9	10931.5	10988.5	10723.2	10326.4	10150.3	9165.7
60°	3883.6	3957.9	4577.9	5649.2	7390.1	8962.4	9153.4	9346.8	9081.5	8292.8	6822.3
62.5°	1874.8	1827.7	2271.6	3238.8	4503.6	5721.2	5664.1	6207.3	6504.8	5892.3	4307.6
65°	982.0	977.1	1240.0	1768.2	2475.0	3005.6	3057.7	3350.4	3759.5	3035.4	2187.3
67.5°	721.7	741.5	873.0	1242.4	1592.1	1624.3	1616.9	1763.2	1802.9	1525.2	1344.1
70°	565.4	575.3	672.0	944.9	1185.4	1061.4	1039.1	1056.5	1173.0	1222.6	1163.1
72.5°	409.1	419.1	501.0	637.3	741.5	724.1	739.0	835.7	979.6	1031.7	969.7
75°	272.8	280.2	324.9	389.4	438.9	473.7	501.0	612.5	746.5	776.2	746.5
77.5°	188.5	196.0	225.6	275.3	280.2	302.5	312.4	364.6	446.4	483.6	463.7
80°	106.6	106.6	121.5	141.4	173.6	203.4	208.3	250.4	287.7	312.4	317.4
82.5°	49.6	52.1	64.5	86.8	114.0	141.4	146.3	173.6	200.9	225.6	233.1
85°	24.8	27.2	37.2	52.1	69.5	84.4	81.8	84.4	89.3	84.4	86.8
87.5°	7.4	7.4	9.9	12.4	9.9	12.4	12.4	14.9	17.3	19.8	22.3
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°	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9	3905.9
2.5°	3928.1	3935.6	3886.0	3933.1	3915.8	3913.3	3948.0	3943.0	3955.5	3950.5	3920.7
5°	3930.7	3913.3	3965.4	3918.3	3940.6	3987.7	3955.5	4029.8	3992.6	4017.5	3962.9
7.5°	4007.5	4012.5	4002.6	4022.4	4012.5	4034.8	4017.5	4034.8	4005.1	4007.5	4057.2
10°	4074.5	4059.6	4077.0	4052.2	4069.5	4062.1	4022.4	4010.1	4019.9	4007.5	4039.7
12.5°	4198.5	4171.2	4158.8	4129.1	4109.2	4034.8	3972.8	3938.1	3985.2	3992.6	3977.8
15°	4324.9	4327.4	4270.4	4203.5	4079.4	3967.8	3982.7	3995.2	3995.2	4015.0	3977.8
17.5°	4404.3	4404.3	4352.3	4218.4	4091.9	4027.4	4012.5	3972.8	3938.1	3933.1	3930.7
20°	4543.2	4501.0	4382.0	4215.8	4086.9	4057.2	3945.6	3851.3	3779.4	3754.6	3752.1
22.5°	4701.9	4595.3	4429.1	4220.8	4079.4	4037.3	3829.0	3687.6	3558.7	3504.1	3511.6
25°	4848.2	4677.1	4456.4	4198.5	4052.2	3848.8	3615.7	3419.8	3285.9	3241.2	3218.9
27.5°	4949.9	4763.9	4456.4	4218.4	3950.5	3638.0	3400.0	3149.5	3032.9	3003.2	3008.2
30°	5086.3	4873.0	4533.2	4176.2	3747.2	3365.3	3080.1	2916.3	2847.0	2822.1	2839.5
32.5°	5406.2	5158.2	4639.9	4074.5	3506.6	3092.4	2861.8	2770.1	2668.4	2618.8	2601.5
35°	5753.4	5428.5	4744.1	3903.4	3236.3	2844.4	2700.6	2616.3	2494.8	2440.2	2450.2
37.5°	6244.4	5775.7	4751.5	3620.7	2943.7	2705.6	2574.1	2442.7	2343.5	2259.2	2234.4
40°	6906.5	6249.4	4734.2	3323.0	2708.1	2541.9	2445.2	2281.5	2169.9	2110.4	2122.8
42.5°	7489.4	6804.9	4662.3	2985.8	2494.8	2430.3	2321.2	2160.0	2050.9	1988.9	1983.9
45°	7980.3	7214.1	4525.8	2698.2	2316.2	2306.4	2179.9	2055.8	1969.0	1912.0	1936.8
47.5°	8434.2	7543.9	4320.0	2410.5	2152.5	2172.4	2050.9	1974.0	1919.4	1867.4	1864.9
50°	8597.9	7538.9	4139.0	2172.4	2021.1	2011.2	2006.3	1924.4	1867.4	1822.7	1842.5
52.5°	8870.6	7623.2	3943.0	2008.7	1902.1	1904.6	1921.9	1862.4	1798.0	1770.6	1795.5
55°	9262.4	7635.7	3511.6	1817.7	1802.9	1820.3	1820.3	1780.6	1726.0	1703.7	1691.3
56°	8942.6	7266.2	3149.5	1768.2	1753.3	1753.3	1800.4	1755.8	1688.8	1671.5	1656.6
57.5°	8248.2	6365.9	2636.1	1708.7	1686.4	1721.0	1745.8	1698.7	1636.8	1611.9	1626.8
60°	5688.9	4307.6	1981.5	1579.7	1579.7	1636.8	1656.6	1587.1	1559.9	1557.4	1537.5
62.5°	3320.6	2509.7	1550.0	1463.2	1468.1	1515.2	1530.1	1490.4	1455.7	1497.9	1517.7
65°	1760.7	1497.9	1329.2	1339.1	1341.6	1378.8	1443.3	1440.8	1438.4	1450.7	1453.2
67.5°	1274.7	1244.9	1207.7	1197.8	1202.8	1230.0	1294.6	1344.1	1341.6	1311.9	1289.6
70°	1135.8	1093.6	1071.3	1073.8	1053.9	1086.2	1138.3	1170.5	1113.5	1078.8	1063.9
72.5°	944.9	932.4	917.5	920.1	880.4	873.0	813.4	813.4	798.5	788.6	805.9
75°	721.7	716.7	724.1	711.7	669.6	624.9	590.2	558.0	508.4	488.5	478.6
77.5°	456.3	471.2	488.5	461.3	443.9	411.7	376.9	344.7	305.0	282.7	282.7
80°	310.0	322.4	334.8	329.8	310.0	280.2	253.0	218.2	191.0	173.6	171.1
82.5°	235.6	245.5	262.9	243.0	223.2	198.4	176.1	151.3	126.5	106.6	106.6
85°	84.4	96.7	106.6	116.6	124.0	126.5	109.1	89.3	71.9	57.0	54.6
87.5°	22.3	24.8	27.2	24.8	24.8	24.8	27.2	24.8	22.3	17.3	17.3
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)