

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: P651367

Luminaire Tested: **GALN-SA4D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651367
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-SA4D-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA 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: 21943.4 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

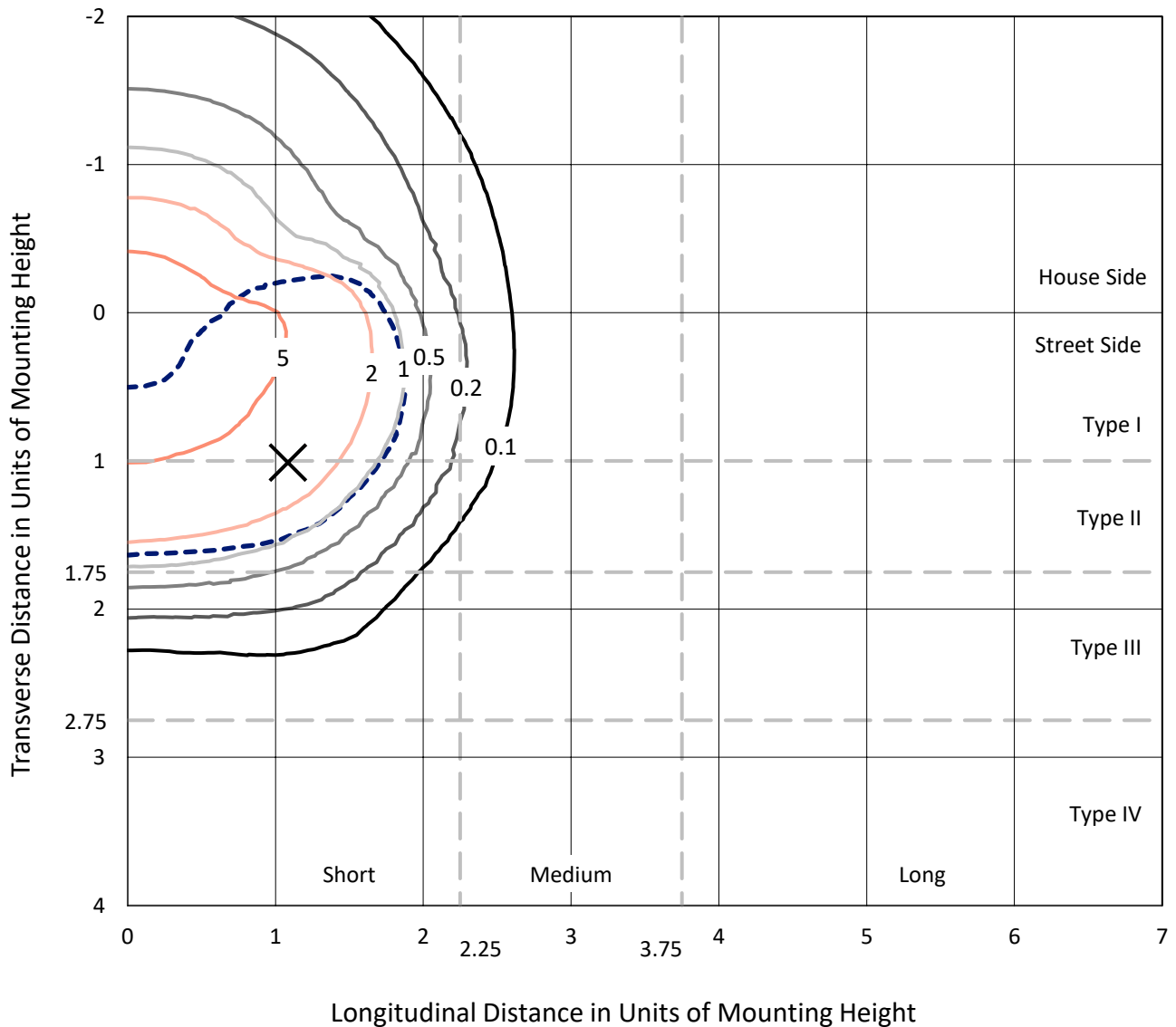
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

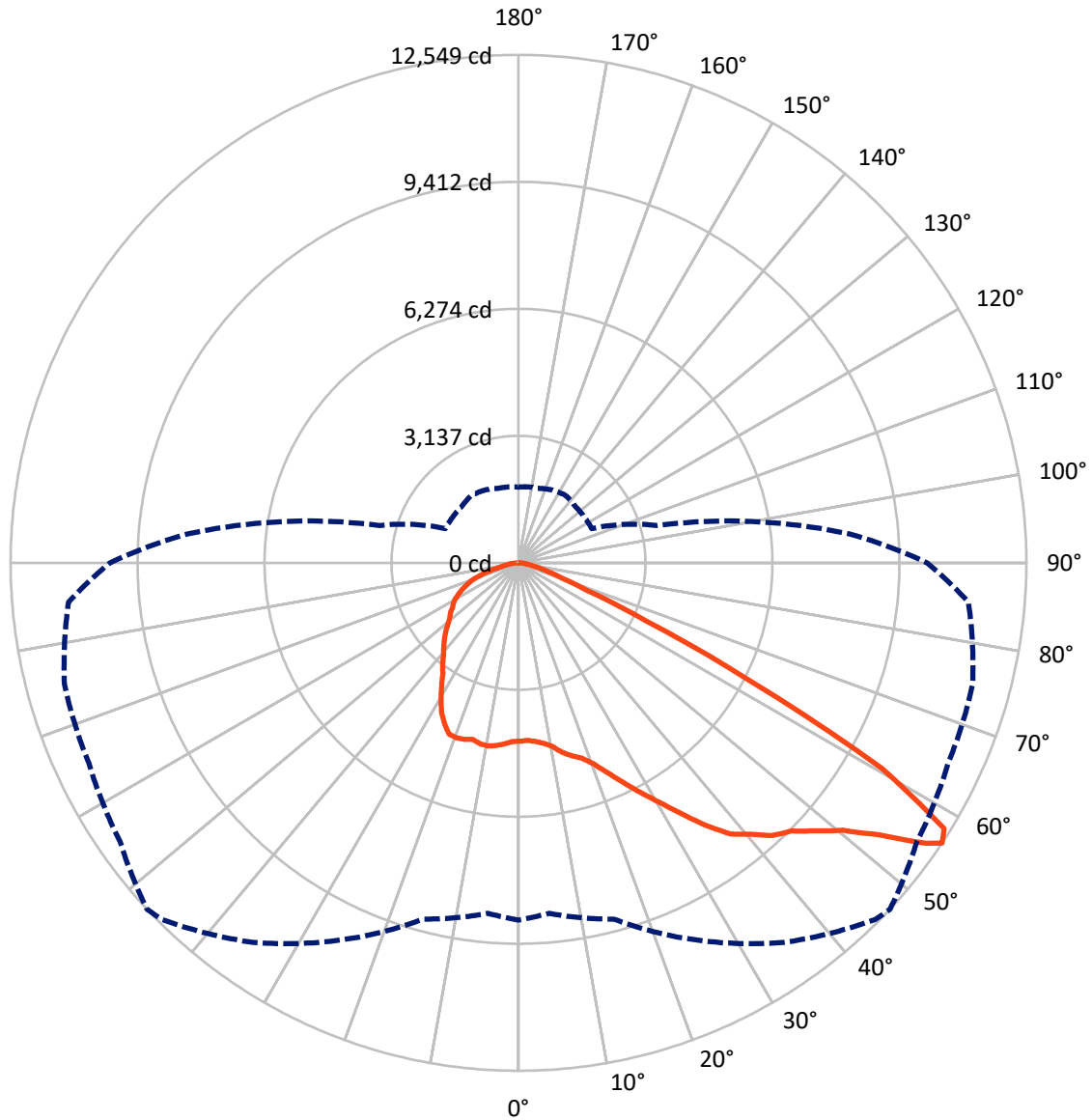
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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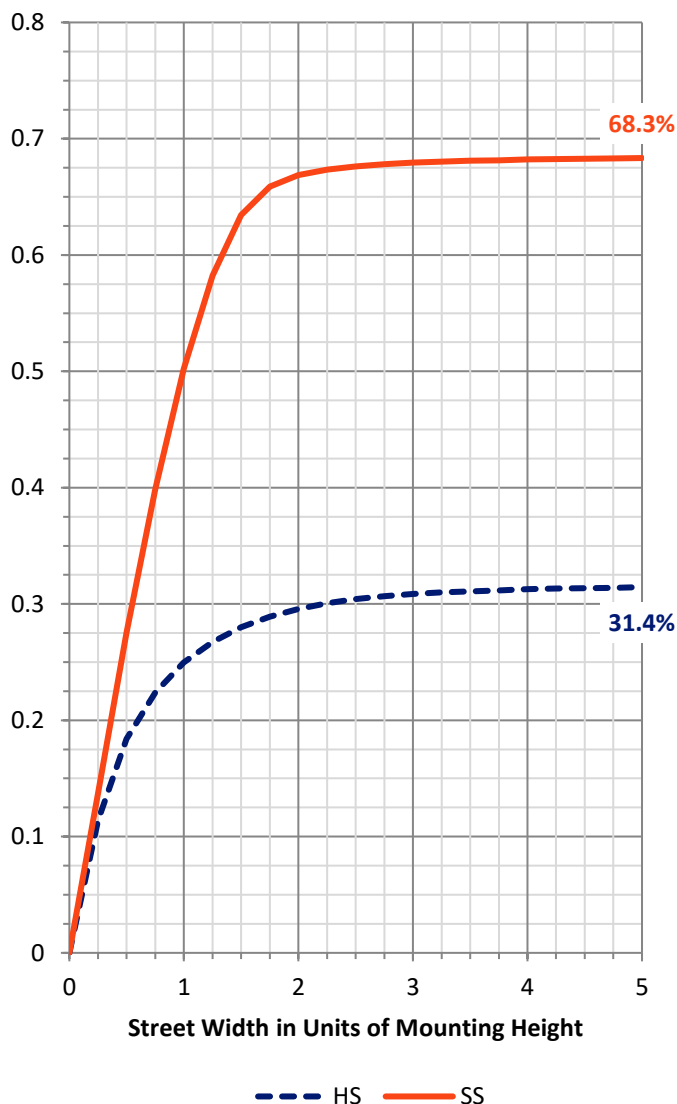
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6953.6	0.0	6953.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	14989.8	0.0	14989.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	21943.4	0.0	21943.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	2.0
10°-20°	1354.8	6.2
20°-30°	2394.9	10.9
30°-40°	3597.1	16.4
40°-50°	4936.7	22.5
50°-60°	5881.4	26.8
60°-70°	2516.9	11.5
70°-80°	712.3	3.2
80°-90°	119.9	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°	21943.4	100.0
0°-180°	21943.4	100.0

Coefficient of Utilization



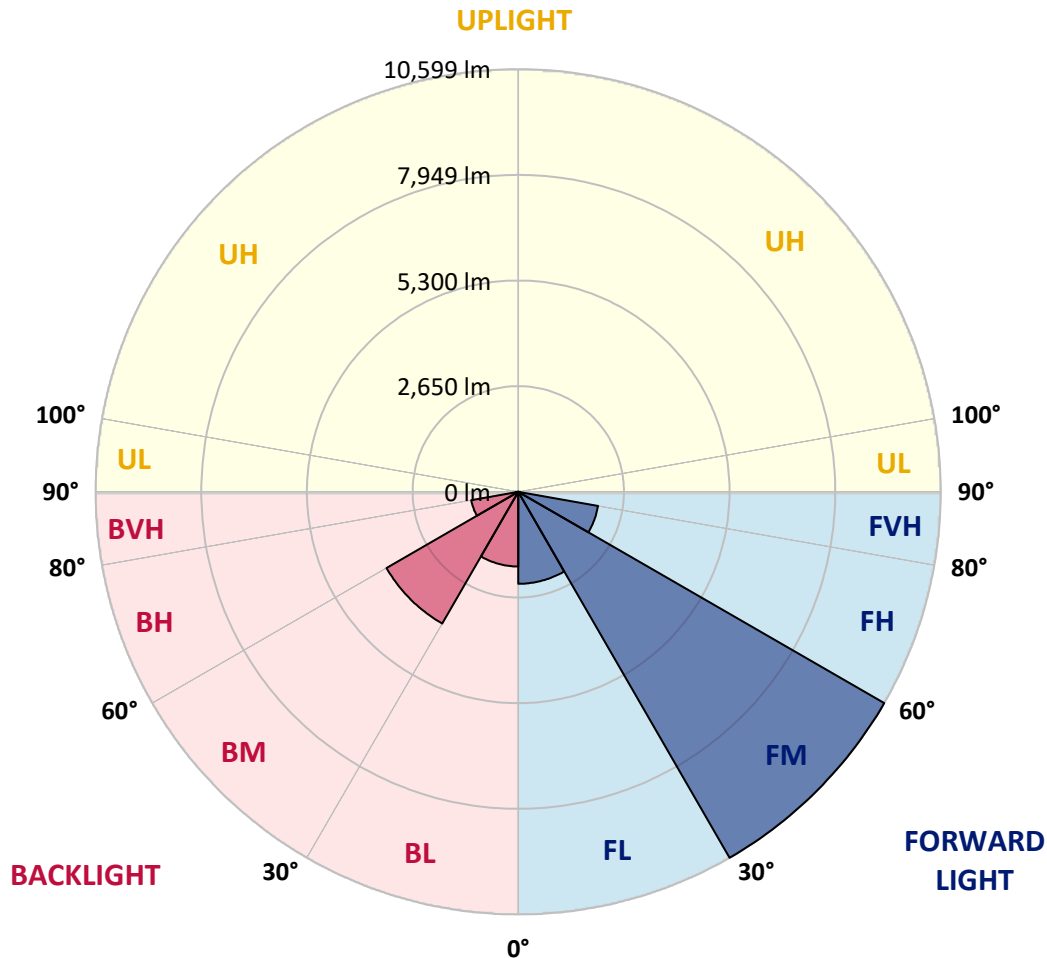
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2307.0	10.5			
FM (30°-60°)	10599.2	48.3			
FH (60°-80°)	2032.7	9.3			G2/5000
FVH (80°-90°)	50.9	0.2			G1/100
BL (0°-30°)	1872.2	8.5	B3/2500		
BM (30°-60°)	3816.0	17.4	B3/5000		
BH (60°-80°)	1196.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	69.0	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°	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8
2.5°	4390.9	4382.5	4377.0	4421.7	4405.0	4407.8	4390.9	4407.8	4419.0	4393.8	4430.1
5°	4382.5	4407.8	4385.4	4399.4	4435.8	4424.6	4435.8	4469.3	4460.9	4452.5	4441.3
7.5°	4460.9	4463.7	4480.5	4486.1	4497.3	4486.1	4502.9	4533.7	4525.3	4477.7	4483.3
10°	4572.9	4578.5	4581.3	4612.0	4631.6	4634.4	4614.8	4586.9	4584.0	4648.5	4603.6
12.5°	4701.6	4687.6	4721.2	4732.4	4754.8	4780.0	4805.1	4746.4	4782.8	4785.5	4732.4
15°	4889.2	4903.1	4863.9	4863.9	4872.3	4875.1	4945.1	4917.1	4911.5	4880.7	4903.1
17.5°	5169.0	5073.8	5071.0	5031.9	5026.2	5048.6	5073.8	5096.2	5171.7	5110.2	4989.8
20°	5373.2	5395.7	5314.5	5266.9	5275.3	5325.7	5300.5	5401.2	5454.4	5353.6	5236.2
22.5°	5734.3	5658.8	5678.3	5572.0	5580.4	5633.5	5630.7	5734.3	5765.1	5605.5	5434.8
25°	5977.7	5958.1	5975.0	5891.0	5902.2	5944.2	6011.3	6182.0	6131.6	5955.4	5560.8
27.5°	6333.2	6294.0	6280.0	6249.2	6238.0	6350.0	6428.4	6610.3	6573.8	6316.4	5784.7
30°	6697.0	6671.8	6685.8	6559.9	6604.6	6842.5	6864.9	7114.0	7097.2	6643.8	6033.8
32.5°	6948.8	6962.9	6988.0	6918.1	7116.8	7307.1	7382.6	7665.3	7679.3	7206.4	6515.1
35°	7354.6	7307.1	7321.1	7402.2	7494.6	7841.6	7964.8	8152.2	8269.8	7796.8	6976.9
37.5°	7609.4	7659.7	7601.0	7729.6	7970.3	8387.3	8499.3	8692.4	8815.5	8379.0	7606.5
40°	8006.7	7925.6	7967.5	8059.9	8306.1	8849.1	8818.3	9017.0	9056.2	8874.3	8194.2
42.5°	8434.9	8395.7	8336.9	8546.8	8754.0	9148.6	9210.1	9117.8	9316.4	9358.4	9033.8
45°	8947.1	8994.7	9003.0	9008.6	9190.5	9534.8	9450.8	9369.7	9599.1	9904.1	9554.3
47.5°	9422.8	9271.7	9380.9	9532.0	9789.4	9792.2	9890.2	9697.1	9940.5	10212.0	10024.5
50°	9582.4	9509.5	9655.1	9940.5	10337.9	10380.0	10391.1	10116.8	10242.8	10458.3	10186.8
52.5°	9520.8	9495.6	9867.8	10310.0	10892.0	11104.7	11160.7	10822.1	10892.0	10794.1	10545.0
55°	9226.9	9302.5	9677.5	10578.6	11471.3	12129.0	12235.4	11807.2	11362.2	11437.8	11163.5
56°	8823.9	8692.4	9112.2	10273.6	11446.2	12462.0	12548.8	12014.3	11712.0	11614.1	11157.9
57.5°	7486.2	7315.4	7866.8	9243.7	10810.9	12336.1	12400.5	12101.1	11653.2	11454.6	10343.5
60°	4382.5	4466.6	5166.2	6375.1	8339.8	10114.0	10329.6	10547.8	10248.4	9358.4	7698.9
62.5°	2115.7	2062.6	2563.5	3654.9	5082.2	6456.3	6391.9	7004.9	7340.7	6649.5	4861.1
65°	1108.3	1102.6	1399.3	1995.4	2793.0	3391.8	3450.6	3780.9	4242.7	3425.5	2468.3
67.5°	814.4	836.8	985.1	1402.1	1796.7	1833.0	1824.6	1989.8	2034.5	1721.1	1516.8
70°	638.1	649.3	758.4	1066.2	1337.7	1197.8	1172.6	1192.2	1323.7	1379.7	1312.5
72.5°	461.8	473.0	565.3	719.2	836.8	817.2	833.9	943.1	1105.4	1164.2	1094.2
75°	307.8	316.2	366.6	439.3	495.3	534.5	565.3	691.2	842.3	876.0	842.3
77.5°	212.7	221.1	254.7	310.7	316.2	341.4	352.6	411.4	503.8	545.7	523.4
80°	120.3	120.3	137.2	159.5	195.9	229.5	235.1	282.7	324.6	352.6	358.2
82.5°	56.0	58.8	72.7	98.0	128.8	159.5	165.1	195.9	226.6	254.7	263.1
85°	28.0	30.8	42.0	58.8	78.4	95.1	92.3	95.1	100.8	95.1	98.0
87.5°	8.4	8.4	11.2	14.0	11.2	14.0	14.0	16.8	19.6	22.4	25.1
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°	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8	4407.8
2.5°	4432.9	4441.3	4385.4	4438.5	4419.0	4416.2	4455.4	4449.7	4463.7	4458.1	4424.6
5°	4435.8	4416.2	4475.0	4421.7	4447.0	4500.1	4463.7	4547.7	4505.7	4533.7	4472.1
7.5°	4522.5	4528.1	4516.9	4539.3	4528.1	4553.3	4533.7	4553.3	4519.7	4522.5	4578.5
10°	4598.1	4581.3	4600.9	4572.9	4592.4	4584.0	4539.3	4525.3	4536.5	4522.5	4558.9
12.5°	4738.0	4707.2	4693.2	4659.6	4637.3	4553.3	4483.3	4444.1	4497.3	4505.7	4488.9
15°	4880.7	4883.5	4819.2	4743.6	4603.6	4477.7	4494.5	4508.5	4508.5	4530.9	4488.9
17.5°	4970.3	4970.3	4911.5	4760.4	4617.7	4544.8	4528.1	4483.3	4444.1	4438.5	4435.8
20°	5127.0	5079.4	4945.1	4757.5	4612.0	4578.5	4452.5	4346.2	4265.0	4237.0	4234.3
22.5°	5306.1	5185.8	4998.2	4763.2	4603.6	4556.1	4321.0	4161.5	4015.9	3954.4	3962.8
25°	5471.2	5278.1	5029.0	4738.0	4572.9	4343.4	4080.4	3859.3	3708.1	3657.8	3632.5
27.5°	5585.9	5376.1	5029.0	4760.4	4458.1	4105.5	3836.8	3554.2	3422.6	3389.1	3394.7
30°	5739.9	5499.2	5115.8	4712.8	4228.6	3797.7	3475.9	3291.1	3212.8	3184.8	3204.4
32.5°	6100.9	5821.1	5236.2	4598.1	3957.2	3489.8	3229.5	3126.0	3011.3	2955.3	2935.7
35°	6492.7	6126.1	5353.6	4405.0	3652.1	3209.9	3047.6	2952.5	2815.3	2753.8	2765.0
37.5°	7046.8	6517.9	5362.0	4085.9	3322.0	3053.3	2904.9	2756.6	2644.7	2549.5	2521.5
40°	7794.1	7052.4	5342.5	3750.1	3056.0	2868.6	2759.4	2574.7	2448.7	2381.6	2395.6
42.5°	8451.7	7679.3	5261.3	3369.5	2815.3	2742.6	2619.5	2437.6	2314.4	2244.5	2238.8
45°	9005.8	8141.0	5107.4	3044.8	2613.8	2602.6	2459.9	2320.0	2222.1	2157.7	2185.7
47.5°	9517.9	8513.3	4875.1	2720.2	2429.1	2451.5	2314.4	2227.6	2166.1	2107.3	2104.5
50°	9702.7	8507.6	4670.8	2451.5	2280.9	2269.6	2264.1	2171.7	2107.3	2056.9	2079.4
52.5°	10010.5	8602.8	4449.7	2266.8	2146.5	2149.3	2168.9	2101.7	2029.0	1998.2	2026.1
55°	10452.7	8616.8	3962.8	2051.4	2034.5	2054.1	2054.1	2009.4	1947.8	1922.6	1908.6
56°	10091.7	8199.8	3554.2	1995.4	1978.6	1978.6	2031.8	1981.4	1905.8	1886.3	1869.5
57.5°	9308.1	7183.9	2974.9	1928.2	1903.0	1942.2	1970.2	1917.1	1847.1	1819.1	1835.9
60°	6419.9	4861.1	2236.1	1782.7	1782.7	1847.1	1869.5	1791.1	1760.3	1757.5	1735.2
62.5°	3747.3	2832.2	1749.1	1651.1	1656.8	1709.9	1726.7	1681.9	1642.7	1690.3	1712.7
65°	1987.0	1690.3	1500.0	1511.2	1514.1	1556.0	1628.8	1626.0	1623.2	1637.2	1640.0
67.5°	1438.4	1404.9	1362.9	1351.7	1357.3	1388.1	1460.8	1516.8	1514.1	1480.4	1455.3
70°	1281.8	1234.2	1209.0	1211.8	1189.4	1225.8	1284.5	1321.0	1256.5	1217.3	1200.6
72.5°	1066.2	1052.3	1035.4	1038.3	993.5	985.1	918.0	918.0	901.1	889.9	909.5
75°	814.4	808.8	817.2	803.2	755.6	705.3	666.1	629.7	573.7	551.4	540.1
77.5°	514.9	531.8	551.4	520.5	501.0	464.6	425.4	389.0	344.2	319.1	319.1
80°	349.9	363.8	377.8	372.2	349.9	316.2	285.4	246.2	215.5	195.9	193.1
82.5°	265.8	277.0	296.6	274.3	251.9	223.9	198.7	170.7	142.7	120.3	120.3
85°	95.1	109.2	120.3	131.5	139.9	142.7	123.1	100.8	81.2	64.3	61.6
87.5°	25.1	28.0	30.8	28.0	28.0	28.0	30.8	28.0	25.1	19.6	19.6
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)