

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: P652330

Luminaire Tested: **GALN-SA4B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16045.4 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

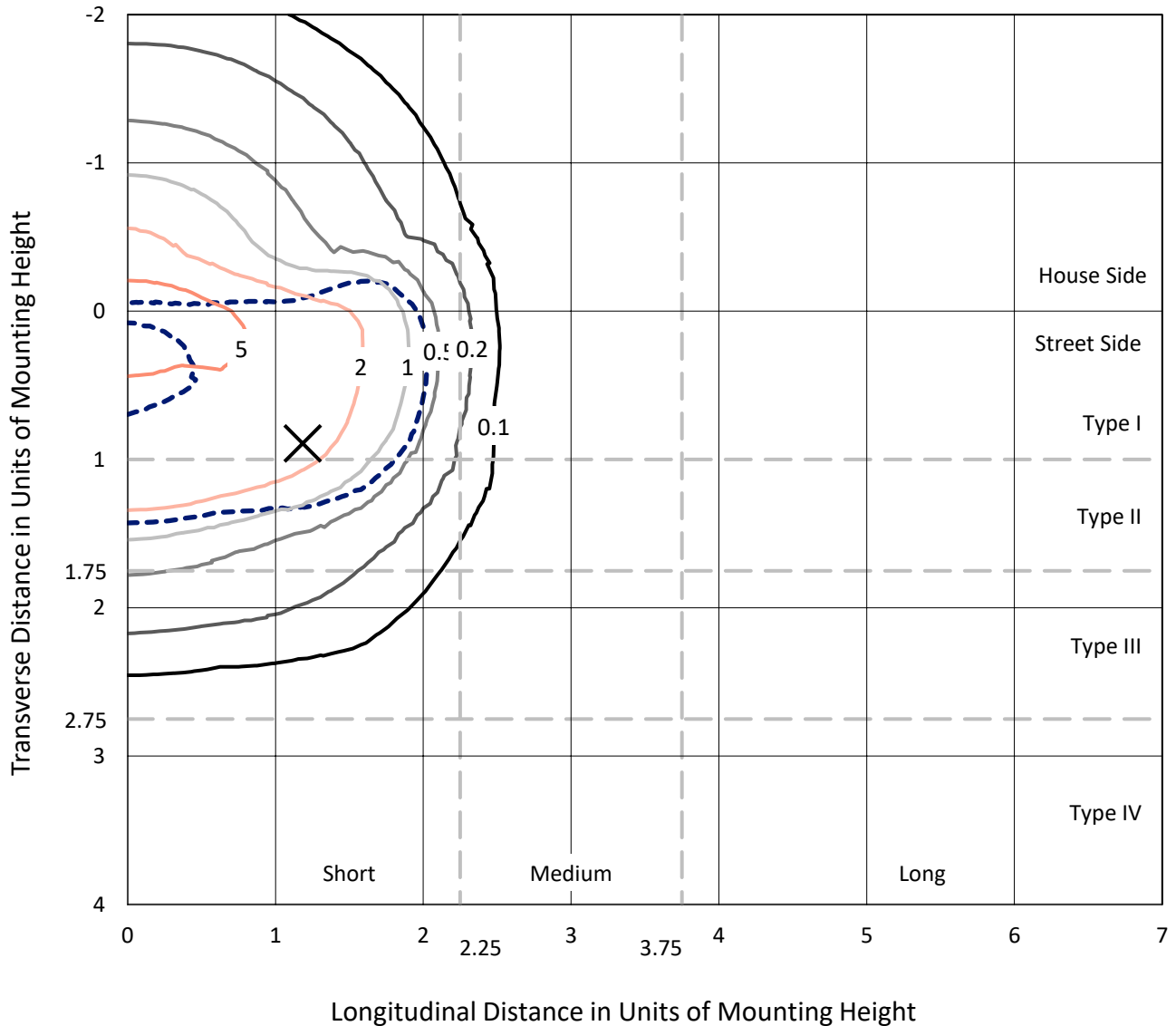
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

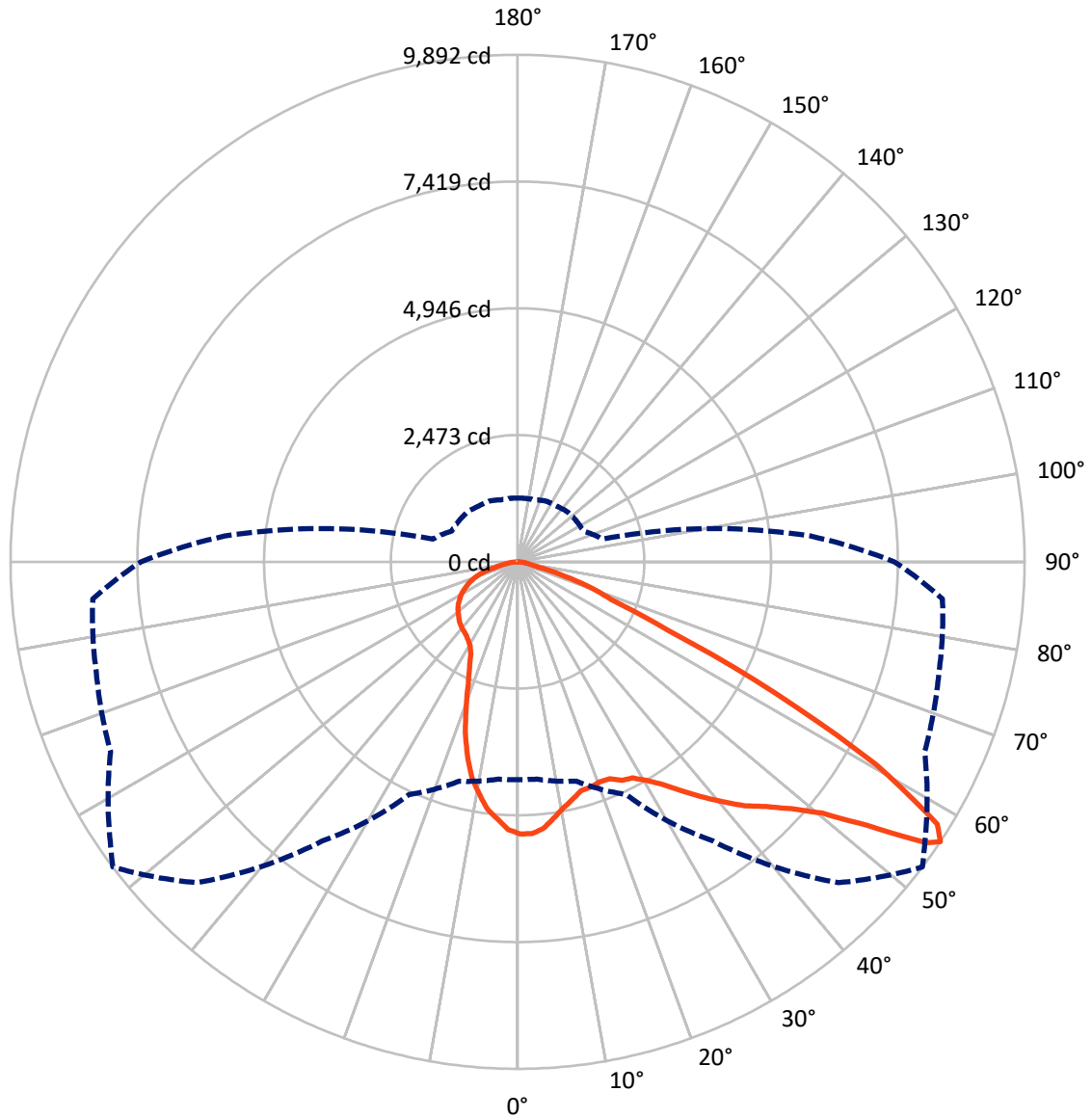
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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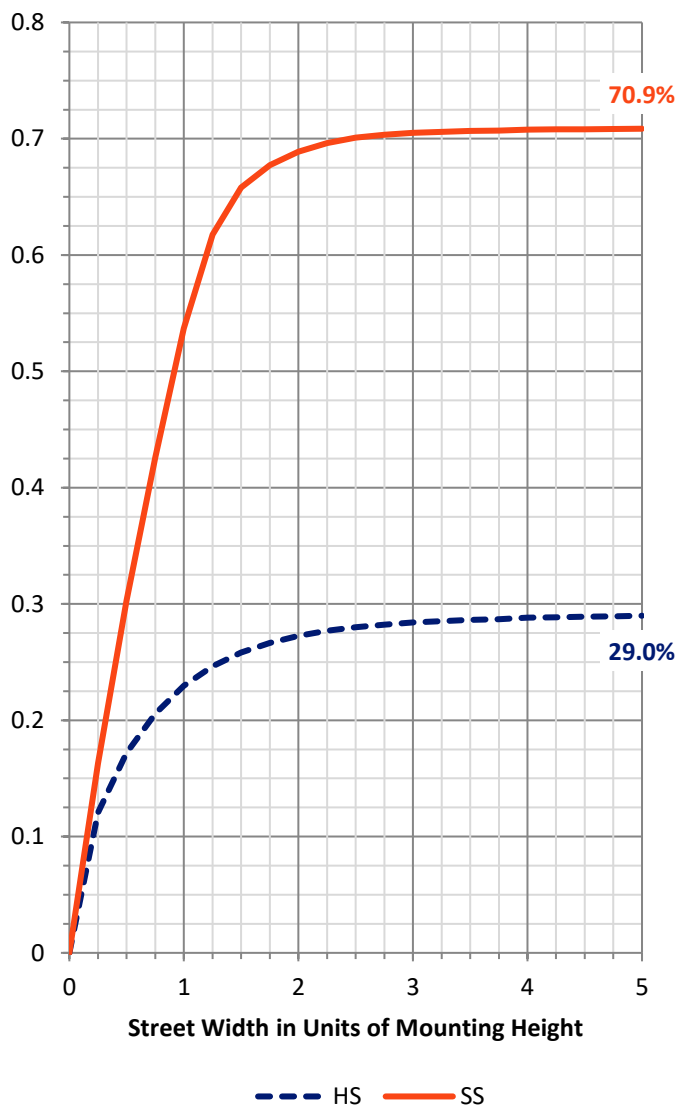
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4682.4	0.0	4682.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	11363.0	0.0	11363.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	16045.4	0.0	16045.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.9	2.9
10°-20°	1173.7	7.3
20°-30°	1730.8	10.8
30°-40°	2472.9	15.4
40°-50°	3403.7	21.2
50°-60°	4022.2	25.1
60°-70°	2143.6	13.4
70°-80°	543.8	3.4
80°-90°	84.8	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°	16045.4	100.0
0°-180°	16045.4	100.0

Coefficient of Utilization

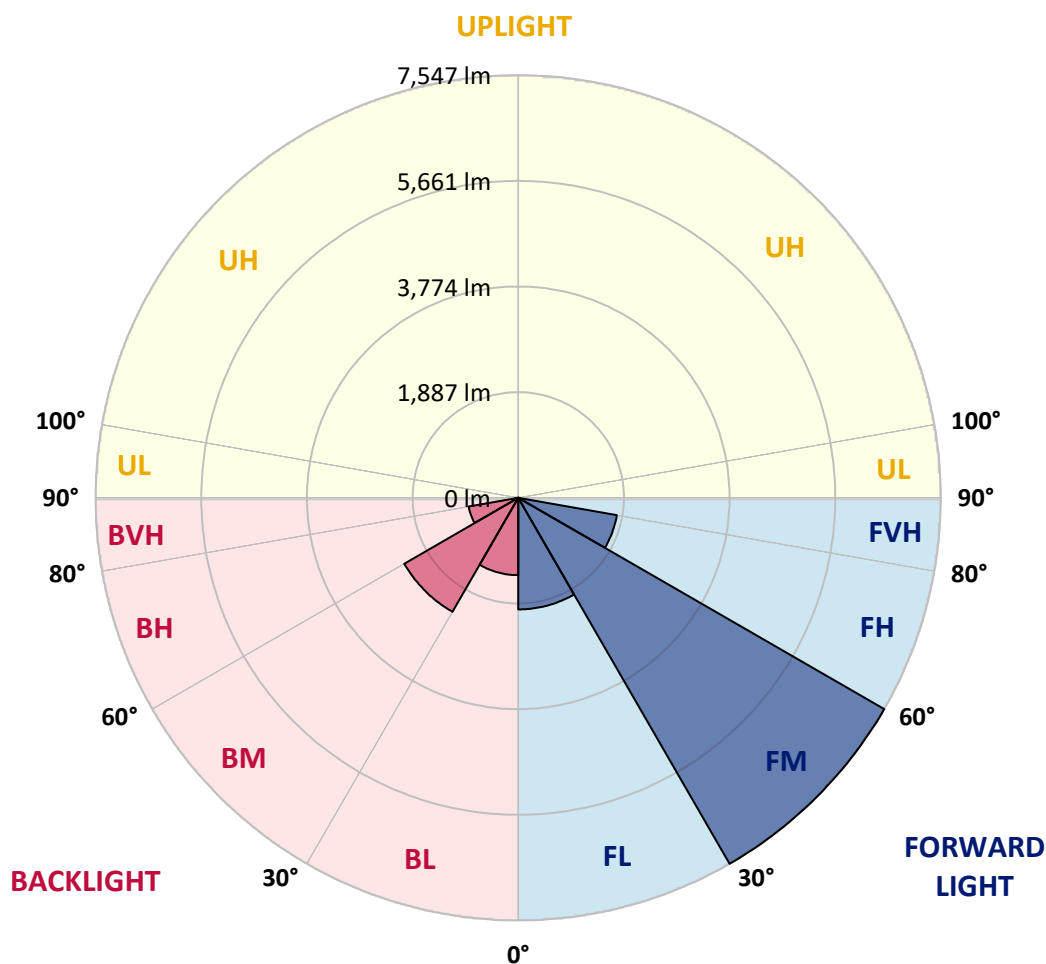


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1993.4	12.4			
FM (30°-60°)	7547.5	47.0			
FH (60°-80°)	1788.1	11.1			G1/1800
FVH (80°-90°)	34.1	0.2			G1/100
BL (0°-30°)	1381.0	8.6	B3/2500		
BM (30°-60°)	2351.3	14.7	B2/2500		
BH (60°-80°)	899.3	5.6	B2/1000		G2/1000
BVH (80°-90°)	50.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5
2.5°	5242.6	5197.3	5224.0	5213.8	5298.1	5322.9	5310.5	5320.8	5368.2	5345.5	5298.1
5°	4898.8	4962.7	4975.0	5005.9	5055.3	5152.1	5228.2	5248.8	5271.4	5376.4	5366.1
7.5°	4586.0	4629.2	4606.6	4697.2	4804.1	4960.6	5053.2	5069.7	5277.6	5335.2	5378.4
10°	4388.4	4345.2	4448.0	4472.8	4594.2	4773.3	4884.4	4952.4	5141.7	5370.2	5396.9
12.5°	4205.2	4190.8	4252.5	4322.5	4458.4	4643.6	4756.9	4783.6	5075.9	5316.7	5442.3
15°	4069.3	4052.9	4114.6	4166.1	4324.6	4489.3	4633.3	4709.5	5003.9	5285.9	5403.2
17.5°	3962.3	3960.3	3995.3	4087.8	4250.5	4388.4	4621.0	4625.1	4966.8	5333.2	5436.1
20°	3956.1	3954.0	3960.3	4063.2	4211.4	4380.2	4581.9	4618.9	4966.8	5300.2	5438.2
22.5°	4007.6	3974.7	4011.7	4077.6	4184.6	4394.6	4596.3	4678.7	5086.2	5462.8	5530.8
25°	4090.0	4098.2	4118.7	4141.4	4203.1	4427.5	4723.9	4791.8	5226.1	5602.8	5658.4
27.5°	4240.2	4236.0	4244.3	4256.6	4310.2	4458.4	4775.4	4950.3	5518.4	5851.8	5796.3
30°	4460.4	4446.0	4478.9	4522.1	4472.8	4557.2	4946.2	5078.0	5790.1	6103.0	5950.7
32.5°	4660.1	4713.6	4775.4	4793.9	4734.2	4750.6	5172.7	5306.4	6016.5	6411.7	6140.1
35°	4909.2	4952.4	5034.7	5092.3	5082.1	5032.6	5481.4	5658.4	6343.8	6638.2	6339.7
37.5°	5152.1	5203.5	5339.3	5510.1	5415.5	5392.8	5810.7	5956.8	6444.7	6759.6	6485.9
40°	5543.1	5541.1	5775.7	5864.2	5948.6	5909.5	6152.4	6201.8	6498.2	6732.9	6489.9
42.5°	6002.1	5973.3	6212.0	6350.0	6459.0	6463.2	6508.5	6492.0	6522.9	6597.0	6446.7
45°	6438.5	6500.3	6741.0	6988.0	7097.2	7109.5	6809.0	6778.1	6566.1	6557.9	6364.4
47.5°	6971.6	6986.0	7183.7	7508.9	7762.0	7675.6	7198.0	7130.1	6755.5	6819.2	6502.3
50°	7002.5	7109.5	7286.5	7669.4	8447.4	8424.8	7702.3	7574.7	7060.1	7189.8	6887.2
52.5°	6356.2	6331.5	6541.4	7167.2	8396.0	9169.9	8538.0	8233.4	7714.7	7615.8	7510.9
55°	4843.3	4900.9	5086.2	5718.0	7290.6	9180.2	9676.3	9427.2	8414.5	8245.8	8124.3
56°	4248.4	4256.6	4431.6	5008.0	6652.6	8853.0	9892.4	9690.7	8762.4	8505.0	8319.8
57.5°	3521.9	3474.5	3565.1	3880.0	5615.2	8161.3	9655.7	9853.3	9169.9	8785.0	8527.7
60°	2772.6	2762.3	2725.3	2782.9	3548.6	6148.3	8037.9	8482.4	9128.7	8521.5	8167.5
62.5°	2264.1	2212.8	2286.8	2369.2	2465.9	3814.1	5648.1	5909.5	7247.4	6802.8	6135.9
65°	1755.8	1731.0	1823.7	2091.3	2148.9	2422.7	3217.2	3418.9	4279.3	4203.1	3700.9
67.5°	1208.3	1212.4	1292.6	1700.2	1992.5	1967.8	1969.9	2074.8	2233.3	1659.0	1444.9
70°	765.7	763.6	806.9	1095.1	1603.5	1619.9	1537.6	1506.7	1428.5	864.5	915.9
72.5°	492.0	477.5	500.1	605.2	829.5	959.2	988.0	1006.5	827.5	679.3	736.9
75°	277.9	263.5	255.2	282.0	327.3	378.7	415.8	428.2	479.6	514.6	545.5
77.5°	84.4	76.2	92.6	123.5	162.6	218.2	265.5	273.7	323.2	364.3	395.2
80°	37.1	41.1	57.6	82.3	115.3	154.4	187.3	199.7	232.6	263.5	271.7
82.5°	22.6	24.7	39.1	55.6	80.3	109.1	133.8	137.9	170.8	195.5	201.8
85°	8.2	10.3	20.6	33.0	51.5	70.0	70.0	76.2	70.0	70.0	76.2
87.5°	0.0	0.0	2.0	4.1	4.1	6.1	8.2	8.2	10.3	12.4	14.4
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°	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5	5308.5
2.5°	5322.9	5312.6	5296.1	5236.4	5230.3	5211.8	5108.8	5092.3	5108.8	5059.4	5063.5
5°	5312.6	5343.5	5219.9	5160.3	5049.1	4968.8	4876.2	4828.9	4744.5	4690.9	4750.6
7.5°	5357.8	5345.5	5191.2	5061.5	4894.7	4690.9	4528.4	4435.7	4287.5	4246.4	4277.2
10°	5341.4	5275.5	5094.4	4923.6	4608.6	4429.5	4166.1	3910.8	3770.9	3698.8	3688.5
12.5°	5318.7	5300.2	4997.6	4703.3	4371.9	3995.3	3624.7	3383.9	3155.4	3056.6	3071.1
15°	5345.5	5189.1	4816.5	4443.9	4003.5	3509.5	3110.2	2799.4	2640.8	2577.1	2577.1
17.5°	5333.2	5135.6	4730.0	4153.7	3595.9	3011.4	2573.0	2385.6	2319.7	2319.7	2338.3
20°	5339.3	5170.6	4555.1	3863.5	3114.3	2535.9	2216.9	2148.9	2177.7	2188.0	2198.3
22.5°	5374.3	5055.3	4384.3	3544.5	2667.7	2169.5	2013.0	2015.1	2066.6	2122.2	2111.8
25°	5417.6	5010.0	4176.4	3227.5	2326.0	1990.4	1941.0	1934.8	1973.9	2002.8	2006.9
27.5°	5380.5	4931.8	3964.4	2832.3	2046.0	1871.1	1860.7	1864.8	1877.2	1934.8	1916.3
30°	5501.9	4954.4	3698.8	2500.9	1891.6	1832.0	1819.6	1813.4	1832.0	1848.3	1834.0
32.5°	5652.2	4874.2	3501.3	2181.8	1815.5	1803.1	1778.4	1770.1	1780.5	1764.0	1772.2
35°	5718.0	4859.7	3243.9	1953.4	1755.8	1745.5	1731.0	1729.0	1731.0	1716.6	1704.3
37.5°	5755.1	4927.7	2949.6	1848.3	1718.8	1729.0	1696.0	1691.9	1654.9	1663.2	1669.3
40°	5819.0	4822.7	2710.8	1747.5	1696.0	1675.5	1646.7	1640.5	1615.8	1601.3	1615.8
42.5°	5726.3	4791.8	2476.2	1704.3	1663.2	1640.5	1619.9	1584.9	1576.7	1564.3	1556.1
45°	5652.2	4614.8	2266.2	1650.8	1624.1	1611.7	1572.6	1535.5	1504.6	1517.0	1498.5
47.5°	5707.8	4553.1	2058.3	1605.5	1570.5	1556.1	1517.0	1488.1	1457.3	1442.9	1438.8
50°	5930.1	4668.3	1883.4	1572.6	1525.2	1517.0	1465.5	1432.6	1403.8	1393.5	1397.6
52.5°	6461.2	4983.3	1764.0	1504.6	1482.0	1444.9	1416.2	1375.0	1356.4	1323.5	1344.1
55°	7134.2	5495.8	1733.1	1440.8	1428.5	1395.6	1356.4	1325.6	1290.6	1263.9	1257.6
56°	7350.3	5740.8	1708.4	1416.2	1395.6	1377.1	1325.6	1307.1	1251.5	1245.3	1241.1
57.5°	7525.3	5956.8	1712.5	1368.8	1348.2	1331.7	1300.9	1255.6	1218.5	1195.9	1206.2
60°	7130.1	5576.1	1634.3	1296.7	1292.6	1261.8	1218.5	1197.9	1152.7	1125.9	1119.7
62.5°	5300.2	3785.3	1325.6	1204.1	1202.0	1169.2	1119.7	1097.1	1088.8	1051.8	1051.8
65°	3052.5	2373.3	1146.5	1127.9	1111.5	1078.6	1029.1	1010.6	990.0	977.7	967.4
67.5°	1303.0	1230.9	1041.5	1039.5	1021.0	979.8	930.4	901.6	874.8	850.1	862.4
70°	944.8	959.2	940.7	930.4	907.7	856.3	813.1	778.1	736.9	720.4	732.8
72.5°	749.2	780.1	806.9	809.0	782.1	722.5	675.2	627.8	582.5	559.9	570.2
75°	568.1	588.7	615.4	621.6	582.5	541.4	496.0	446.7	411.7	384.9	389.0
77.5°	409.7	405.5	430.2	426.1	407.5	378.7	337.6	292.2	253.1	228.5	230.5
80°	280.0	286.1	300.5	298.5	275.8	257.3	226.4	189.4	160.5	139.9	135.8
82.5°	195.5	205.8	218.2	207.9	189.4	170.8	148.2	121.4	98.8	82.3	78.2
85°	70.0	80.3	92.6	98.8	105.0	100.8	84.4	68.0	49.4	41.1	39.1
87.5°	14.4	16.5	18.5	18.5	18.5	16.5	14.4	14.4	12.4	6.1	6.1
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)