

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: P652032

Luminaire Tested: **GALN-SA7A-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27413.2 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

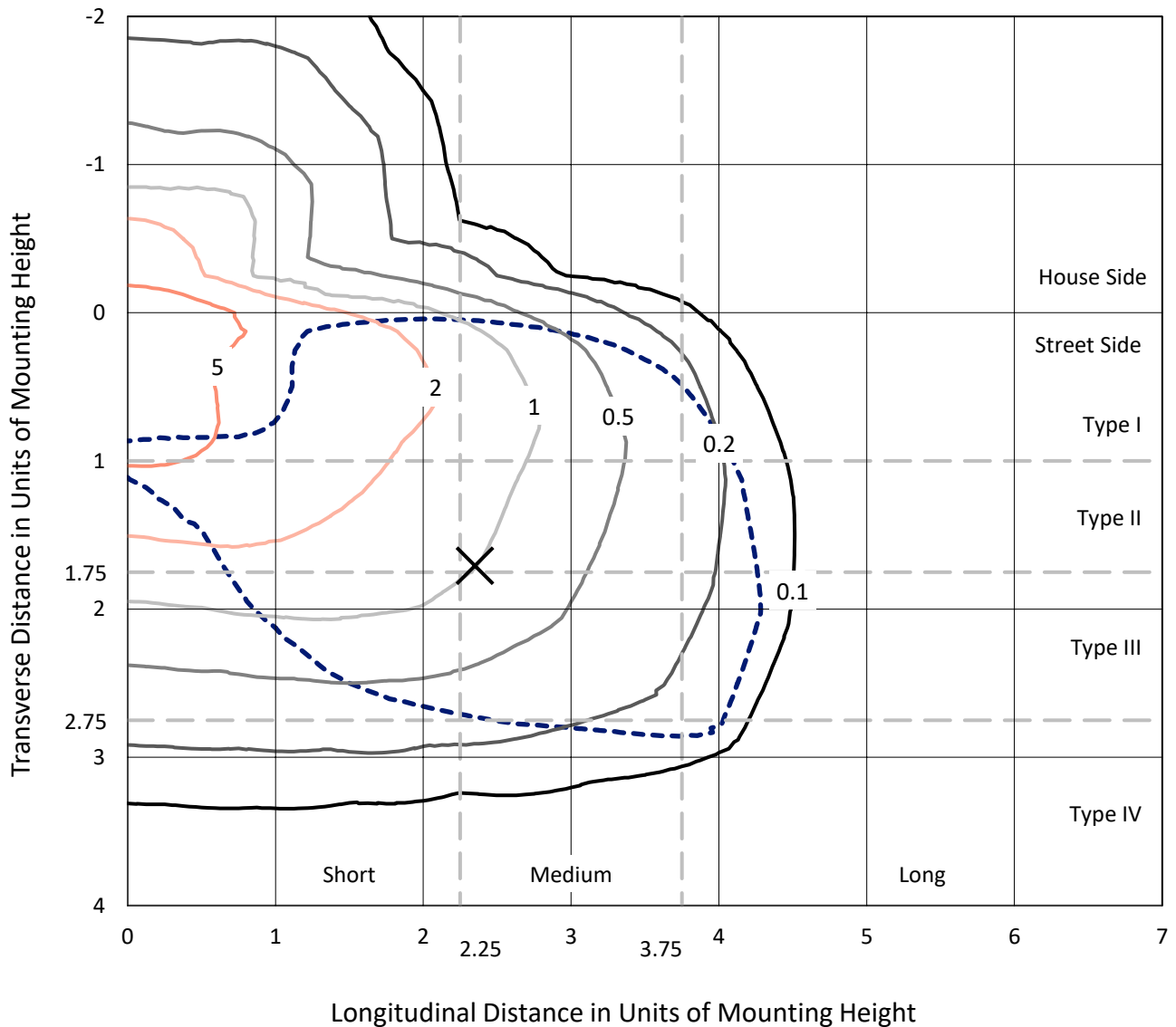
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

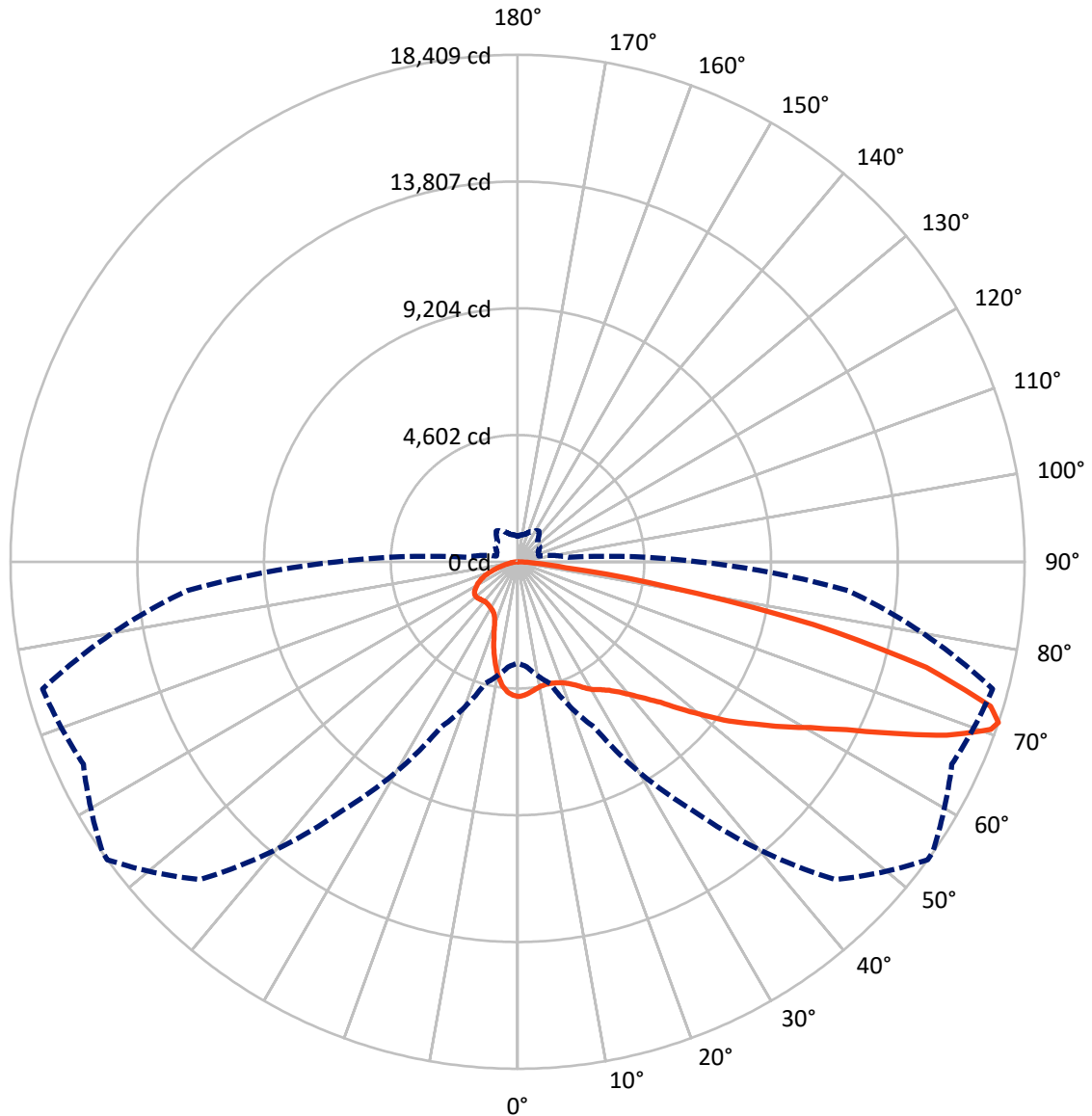
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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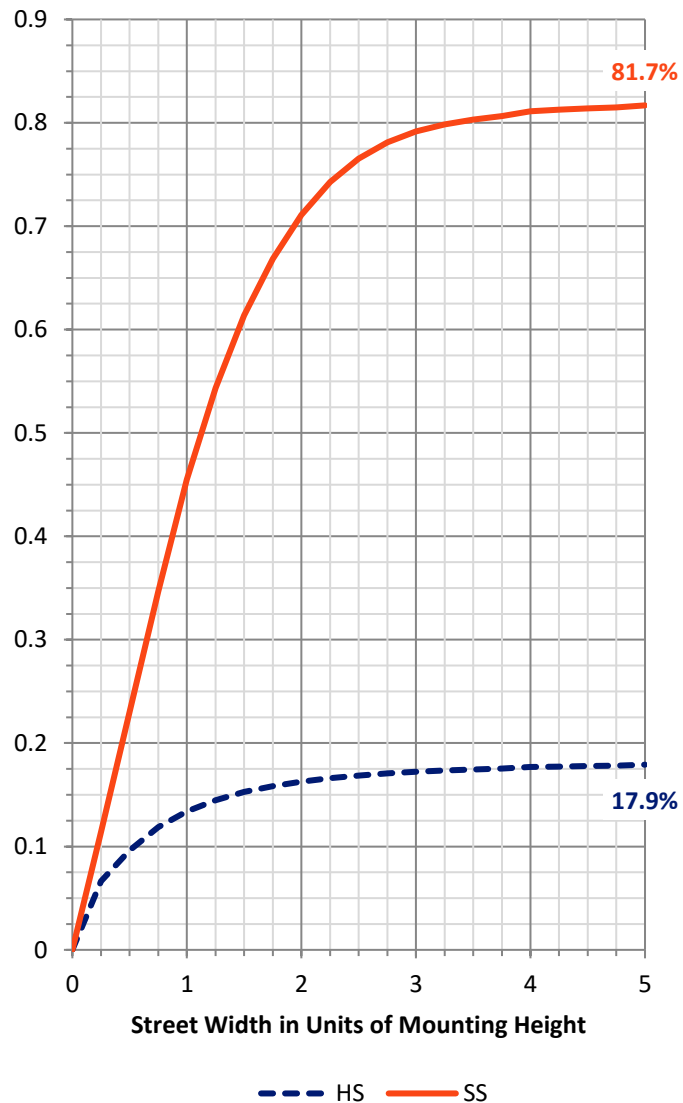
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4949.3	0.0	4949.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22464.0	0.0	22464.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	27413.2	0.0	27413.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.9	1.6
10°-20°	1150.9	4.2
20°-30°	1916.3	7.0
30°-40°	2833.5	10.3
40°-50°	3991.1	14.6
50°-60°	5344.3	19.5
60°-70°	6736.0	24.6
70°-80°	4600.7	16.8
80°-90°	404.6	1.5
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°	27413.2	100.0
0°-180°	27413.2	100.0

Coefficient of Utilization

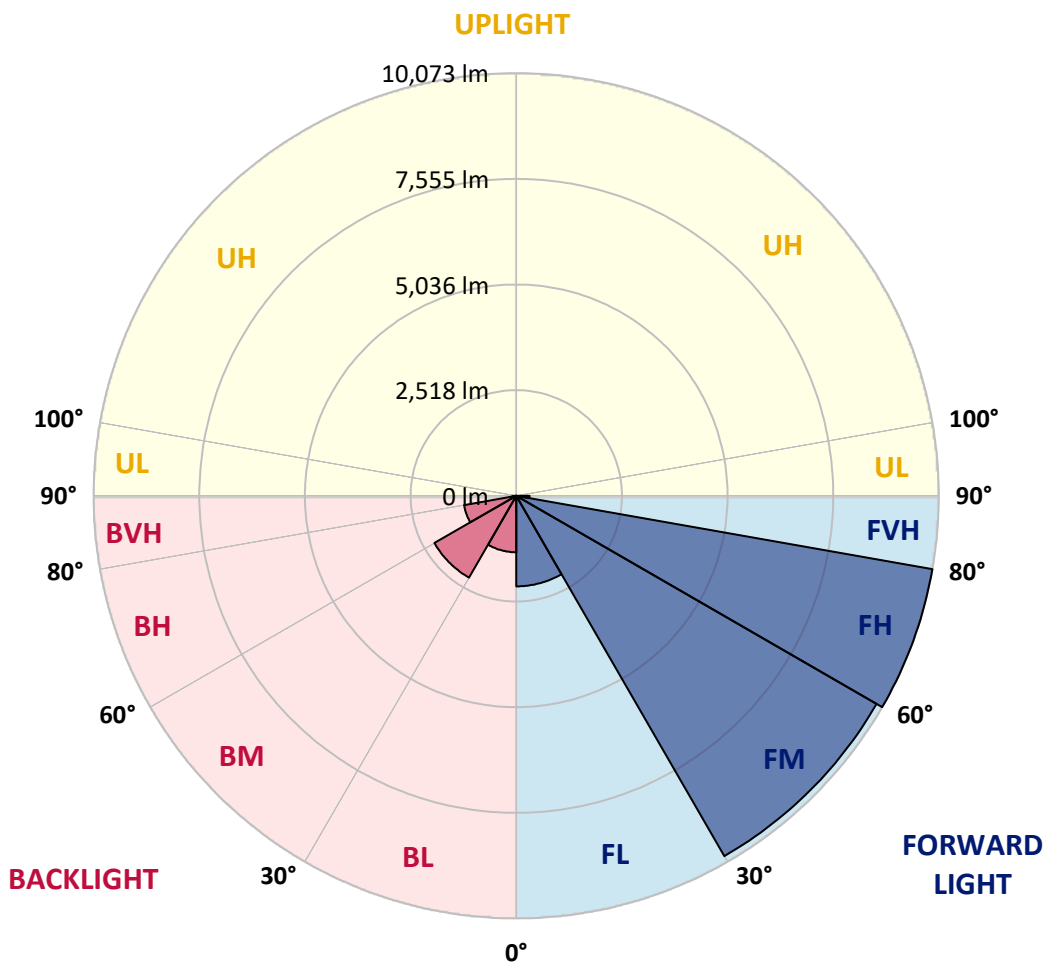


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2157.9	7.9			
FM (30°-60°)	9917.1	36.2			
FH (60°-80°)	10072.7	36.7			G4/12000
FVH (80°-90°)	316.3	1.2			G3/500
BL (0°-30°)	1345.1	4.9	B3/2500		
BM (30°-60°)	2251.8	8.2	B2/2500		
BH (60°-80°)	1264.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	88.3	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9
2.5°	4725.1	4747.3	4753.2	4768.0	4799.1	4824.3	4849.5	4846.5	4882.0	4896.9	4910.2
5°	4514.8	4520.7	4542.9	4572.6	4627.4	4697.0	4765.0	4766.5	4853.9	4923.5	4957.5
7.5°	4360.8	4380.1	4394.9	4425.9	4483.7	4559.2	4667.3	4676.2	4831.7	4969.4	5042.0
10°	4260.1	4282.4	4298.6	4337.1	4394.9	4479.3	4596.2	4612.5	4815.4	5042.0	5169.3
12.5°	4168.3	4190.5	4205.3	4255.7	4331.2	4434.8	4566.6	4585.9	4821.4	5126.4	5308.5
15°	4224.6	4242.3	4236.5	4251.3	4301.5	4420.0	4578.5	4597.7	4843.6	5207.8	5446.2
17.5°	4474.9	4489.7	4440.8	4384.5	4360.8	4448.2	4615.5	4636.3	4888.0	5292.2	5586.8
20°	4843.6	4883.5	4776.9	4651.1	4537.0	4548.9	4692.5	4714.7	4950.1	5376.6	5730.5
22.5°	5323.3	5352.9	5222.6	5015.3	4805.1	4697.0	4808.0	4821.4	5043.5	5486.2	5887.5
25°	5887.5	5905.2	5724.6	5458.1	5154.5	4950.1	4966.4	4990.2	5197.5	5610.6	6026.7
27.5°	6435.3	6491.6	6282.9	5957.1	5557.2	5216.7	5184.1	5198.9	5364.7	5680.2	6122.9
30°	7085.4	7081.0	6860.3	6482.8	5970.4	5507.0	5390.0	5386.9	5455.1	5714.3	6192.5
32.5°	7603.6	7664.4	7448.1	7036.6	6442.7	5807.5	5532.1	5526.2	5524.7	5773.5	6296.1
35°	8193.0	8201.9	8003.5	7588.8	6953.6	6185.1	5730.5	5700.9	5666.8	5900.8	6436.8
37.5°	8720.2	8761.6	8579.5	8114.6	7455.6	6577.5	6003.0	5983.7	5880.1	6121.5	6661.9
40°	9131.8	9162.9	9053.4	8610.6	7950.1	7001.0	6349.5	6313.9	6188.1	6482.8	6962.5
42.5°	9266.6	9330.2	9373.2	9155.5	8518.7	7503.0	6775.9	6731.5	6635.2	7030.6	7309.0
45°	9276.9	9377.6	9604.1	9614.6	9090.4	8104.1	7273.5	7242.4	7235.0	7732.5	7796.2
47.5°	9198.4	9300.6	9681.2	9887.0	9599.8	8711.2	7991.6	7942.7	7947.2	8600.2	8342.6
50°	9008.9	9130.3	9592.3	10061.7	9998.1	9342.1	8749.8	8733.4	8825.3	9590.8	8909.7
52.5°	8652.0	8798.6	9500.5	10171.3	10294.2	9885.5	9611.5	9565.7	9798.2	10665.9	9530.1
55°	7664.4	7885.0	9164.4	10232.0	10575.6	10405.3	10387.4	10470.4	10778.4	11838.6	10212.8
57.5°	7149.1	7314.9	8434.4	10242.4	10930.9	11009.4	11293.7	11314.4	11853.4	13083.9	10984.2
60°	6867.8	7014.4	8034.6	10174.2	11427.0	11757.2	12220.7	12294.7	12903.3	14432.9	11783.8
62.5°	6621.9	6747.8	7794.7	9938.9	11986.7	12866.3	13421.5	13457.1	14095.3	15922.6	12573.0
65°	6042.9	6186.6	7312.0	9703.4	12469.4	14252.3	15014.9	14973.4	15364.3	17207.9	13067.6
67.5°	5262.6	5444.7	6410.2	8890.5	12707.8	15767.1	16809.5	16757.7	16617.0	18050.4	13209.8
70°	4266.1	4363.8	5256.7	7485.2	11755.7	16562.2	18226.6	18171.8	17392.9	18161.4	12537.5
71°	3670.8	3823.3	4577.0	6648.6	10963.5	16319.4	18408.7	18393.9	17394.4	17854.9	12031.1
72.5°	2865.3	2958.6	3624.9	5151.5	9318.4	14939.4	17958.5	18014.8	17016.8	17003.5	10987.2
75°	1812.4	1853.9	2274.4	3032.6	5113.0	10579.9	15330.3	15482.7	15109.6	13917.6	8170.8
77.5°	1052.8	1106.1	1362.3	1787.3	2209.3	5742.3	10969.4	11135.3	10498.5	7662.9	3345.0
80°	613.0	672.3	897.3	1038.0	1014.3	2130.8	5585.4	5868.2	4545.9	1935.3	938.8
82.5°	340.6	380.6	630.8	632.3	540.5	695.9	1757.7	1839.1	1297.2	780.4	383.5
85°	247.3	279.9	407.2	368.7	259.1	299.1	611.6	641.2	524.2	328.7	124.4
87.5°	87.4	124.4	223.6	177.7	71.1	62.1	176.2	143.6	133.3	91.8	28.2
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°	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9
2.5°	4917.6	4920.5	4905.7	4879.1	4852.4	4818.3	4779.9	4750.2	4736.9	4735.4	4734.0
5°	4970.9	4978.3	4922.0	4839.1	4747.3	4634.8	4538.5	4429.0	4400.8	4356.4	4369.7
7.5°	5056.8	5052.3	4941.3	4765.0	4550.3	4312.0	4110.6	3993.6	3872.1	3838.1	3839.6
10°	5179.6	5151.5	4941.3	4614.1	4255.7	3901.8	3620.4	3442.7	3346.5	3266.5	3236.9
12.5°	5310.0	5238.9	4893.9	4402.3	3876.6	3442.7	3140.7	2900.8	2838.6	2773.4	2775.0
15°	5434.4	5315.9	4800.6	4104.7	3467.9	2952.6	2659.4	2515.8	2496.5	2504.0	2502.5
17.5°	5546.9	5370.7	4658.5	3773.0	2991.1	2532.1	2376.6	2387.0	2438.8	2475.8	2480.3
20°	5660.9	5403.3	4446.7	3328.8	2541.0	2277.4	2283.3	2364.7	2443.3	2493.6	2501.0
22.5°	5769.0	5418.1	4197.9	2899.3	2215.2	2169.3	2256.7	2344.0	2421.1	2469.9	2477.3
25°	5840.1	5384.0	3845.6	2450.7	2055.3	2130.8	2222.6	2296.7	2361.8	2412.2	2424.0
27.5°	5859.3	5274.4	3408.7	2087.9	1981.2	2093.8	2178.2	2232.9	2283.3	2330.7	2339.6
30°	5849.0	5113.0	2929.0	1874.7	1938.3	2050.9	2116.0	2156.0	2216.7	2253.7	2261.1
32.5°	5832.7	4925.0	2428.5	1760.6	1902.8	2010.8	2049.3	2084.9	2083.4	2068.6	2079.0
35°	5838.6	4699.9	2022.7	1692.5	1871.6	1981.2	2013.9	1969.4	1842.0	1836.2	1830.2
37.5°	5869.7	4477.8	1728.0	1645.1	1855.4	1976.8	1994.6	1790.2	1677.7	1625.9	1612.5
40°	5949.7	4218.6	1534.1	1609.6	1853.9	2010.8	1907.2	1699.9	1483.7	1383.0	1375.6
42.5°	6056.3	3964.0	1415.6	1587.4	1871.6	2062.7	1871.6	1572.6	1337.1	1277.9	1269.0
45°	6214.7	3672.2	1350.5	1577.0	1898.3	2082.0	1859.8	1479.2	1277.9	1230.5	1230.5
47.5°	6393.9	3393.9	1314.9	1569.6	1932.4	2068.6	1754.7	1449.6	1249.7	1255.7	1283.8
50°	6571.6	3152.5	1288.2	1553.3	1962.0	2061.2	1711.8	1448.2	1257.1	1332.6	1383.0
52.5°	6777.4	2982.3	1255.7	1526.7	1962.0	2013.9	1698.4	1477.8	1277.9	1300.1	1322.3
55°	7026.1	2929.0	1214.2	1468.9	1926.5	1895.4	1691.0	1520.7	1292.7	1240.9	1249.7
57.5°	7354.9	3014.8	1174.2	1396.3	1845.0	1772.5	1688.1	1532.6	1258.6	1215.7	1206.8
60°	7736.9	3185.1	1162.4	1322.3	1734.0	1667.4	1670.3	1498.5	1211.3	1166.8	1174.2
62.5°	8005.0	3287.3	1155.0	1266.0	1612.5	1551.8	1627.3	1457.0	1190.5	1152.0	1159.4
65°	8005.0	3162.9	1086.9	1180.2	1455.6	1412.6	1575.5	1405.2	1163.9	1119.5	1112.1
67.5°	7701.4	2800.1	983.2	1051.3	1282.4	1254.2	1503.0	1343.1	1123.9	1089.9	1072.1
70°	6910.7	2123.4	852.9	900.3	1063.2	1088.3	1409.7	1258.6	1057.2	1015.8	989.2
71°	6562.7	1849.4	798.1	823.3	978.8	1015.8	1365.3	1223.1	1027.6	968.4	921.1
72.5°	5891.9	1557.8	715.2	725.5	836.6	903.2	1271.9	1155.0	971.4	887.0	833.7
75°	4476.3	1137.2	576.0	570.1	619.0	716.7	1076.5	1029.1	851.4	737.4	706.4
77.5°	1933.9	619.0	430.9	435.3	420.5	543.5	847.0	884.0	730.0	599.7	571.5
80°	586.3	356.8	294.7	300.6	281.3	364.2	596.8	693.0	586.3	466.4	427.9
82.5°	300.6	213.2	201.4	198.4	179.1	205.8	361.3	473.8	419.1	291.7	257.7
85°	130.3	114.0	99.2	96.2	84.4	74.0	128.8	236.9	222.1	162.9	155.5
87.5°	32.5	29.6	19.3	17.7	10.3	1.5	0.0	0.0	0.0	0.0	0.0
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)