

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: P646834

Luminaire Tested: **GALN-SA3C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13902.1 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

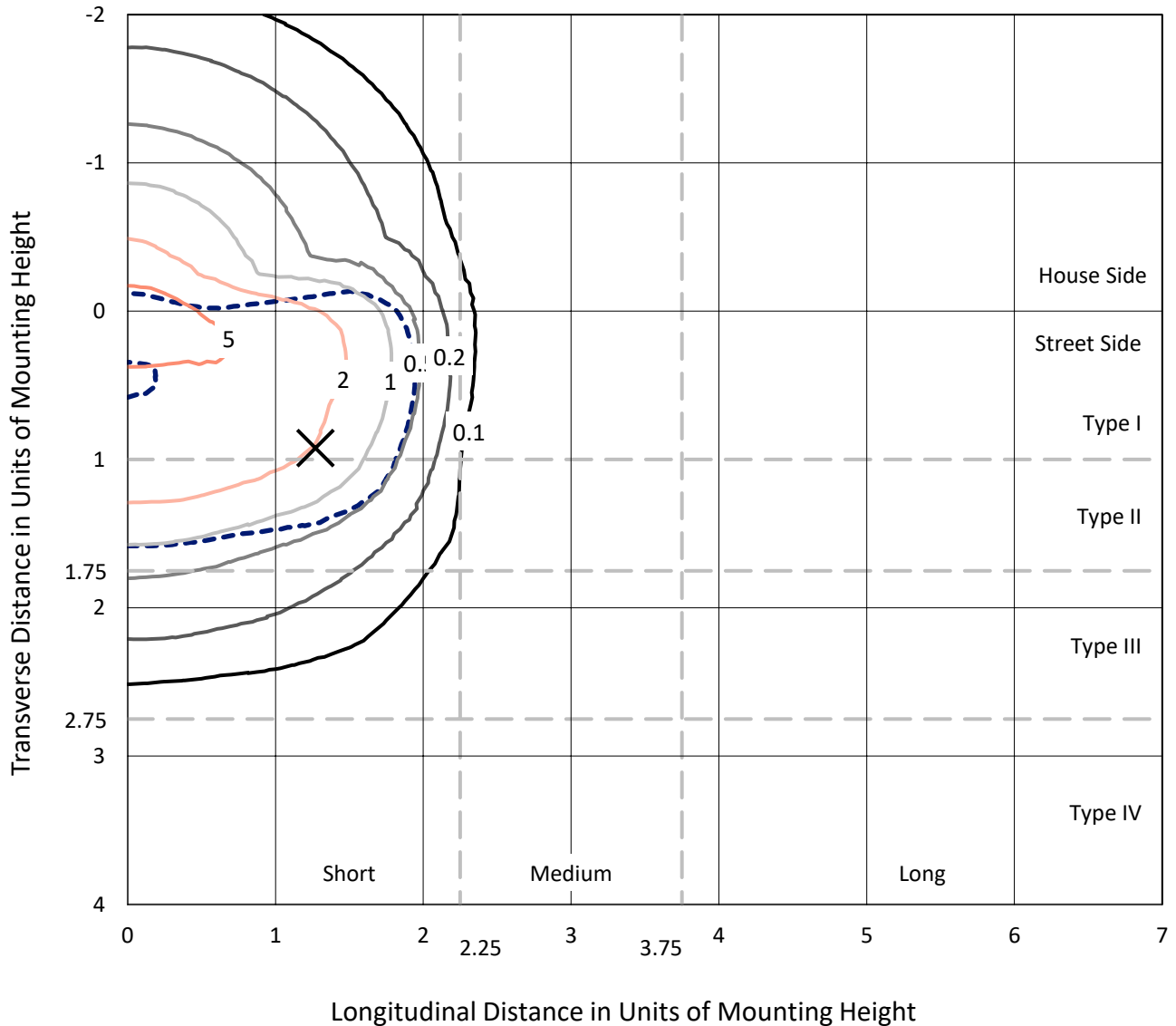
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

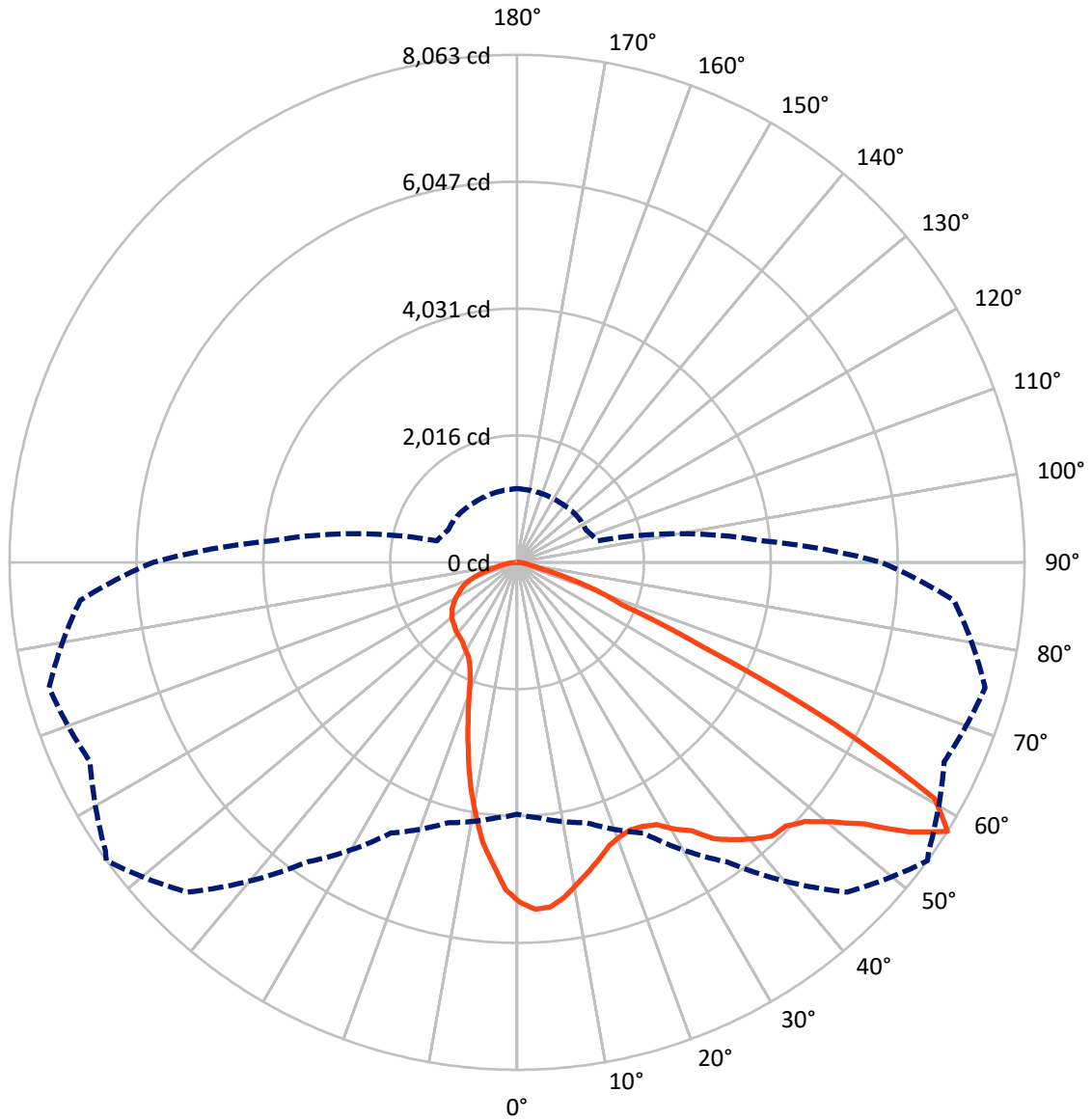
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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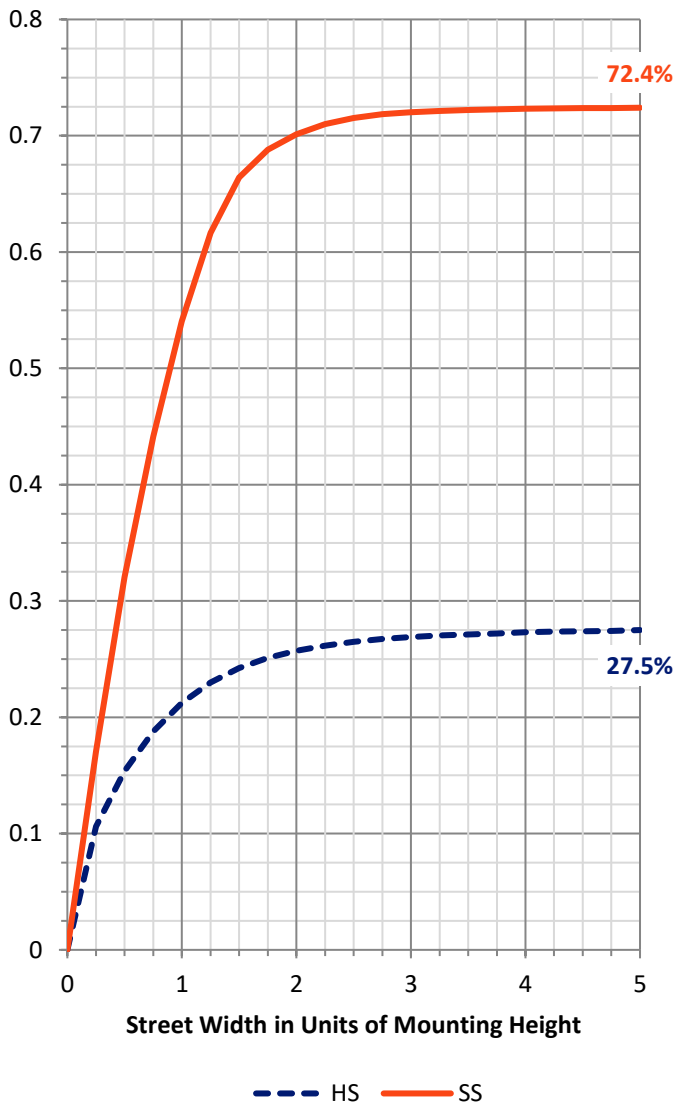
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3846.1	0.0	3846.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10056.1	0.0	10056.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	13902.1	0.0	13902.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	3.4
10°-20°	1079.0	7.8
20°-30°	1516.0	10.9
30°-40°	2119.4	15.2
40°-50°	2869.2	20.6
50°-60°	3494.8	25.1
60°-70°	1820.2	13.1
70°-80°	466.4	3.4
80°-90°	71.1	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°	13902.1	100.0
0°-180°	13902.1	100.0

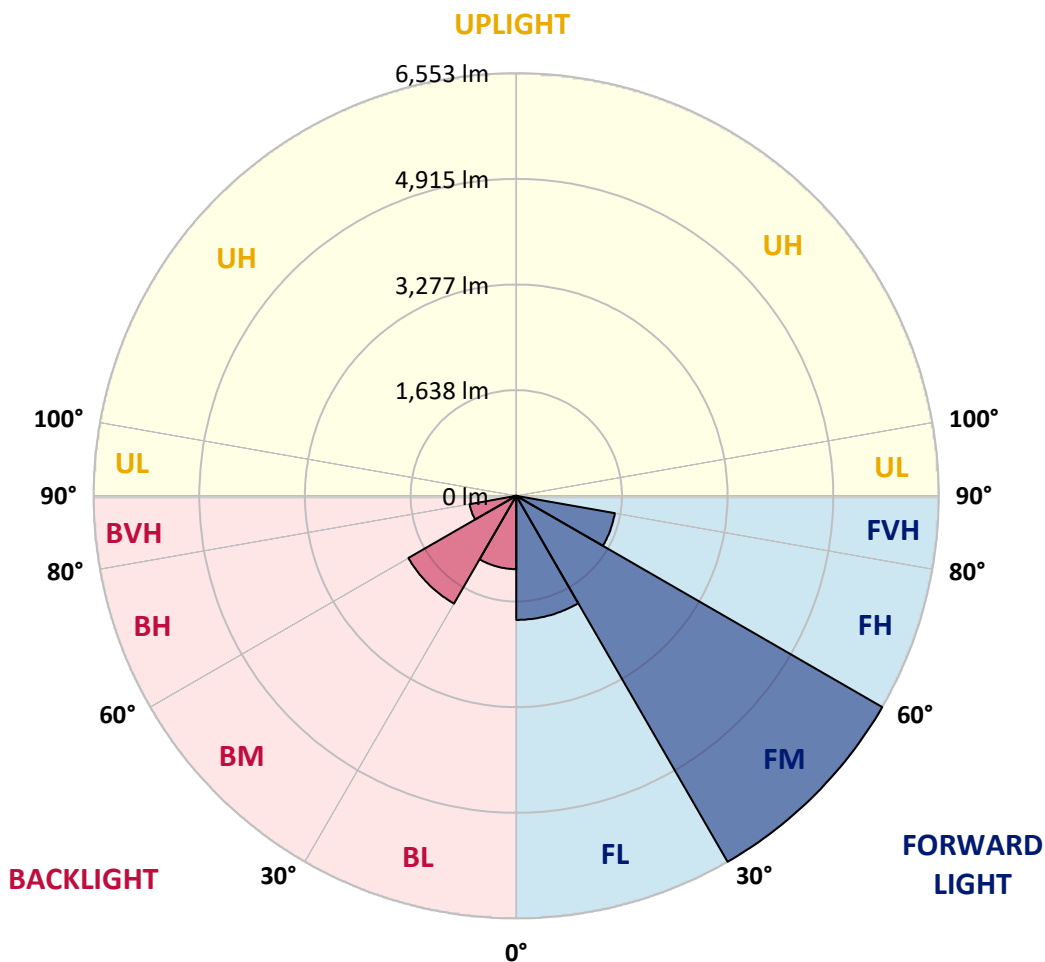


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1924.2	13.8			
FM (30°-60°)	6553.1	47.1			
FH (60°-80°)	1551.9	11.2			G1/1800
FVH (80°-90°)	26.9	0.2			G1/100
BL (0°-30°)	1136.7	8.2	B3/2500		
BM (30°-60°)	1930.3	13.9	B2/2500		
BH (60°-80°)	734.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	44.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6
2.5°	5557.3	5535.8	5539.4	5568.0	5532.3	5518.0	5518.0	5448.3	5453.7	5405.4	5392.9
5°	5428.6	5378.6	5412.6	5455.4	5462.6	5476.9	5500.1	5482.3	5432.2	5380.4	5296.4
7.5°	5092.7	5137.3	5149.9	5180.2	5244.6	5303.6	5376.8	5326.7	5325.0	5273.2	5223.2
10°	4797.8	4771.1	4838.9	4883.6	4990.8	5089.1	5201.7	5196.3	5223.2	5164.2	5078.4
12.5°	4504.8	4483.4	4515.5	4617.4	4767.5	4910.4	5044.5	4994.4	5137.3	5126.6	4942.6
15°	4193.9	4210.0	4256.4	4351.1	4547.7	4719.2	4889.0	4890.8	5017.6	5060.5	4814.0
17.5°	3975.8	3958.0	4016.9	4158.1	4333.3	4538.7	4731.7	4771.1	4965.8	4990.8	4774.7
20°	3813.3	3838.3	3915.1	3986.6	4188.5	4436.9	4654.9	4669.2	4955.1	5023.0	4712.1
22.5°	3774.0	3759.7	3784.7	3900.8	4067.0	4336.8	4613.8	4667.4	4953.3	5012.3	4594.2
25°	3732.9	3779.3	3777.5	3893.7	4015.1	4256.4	4647.7	4706.7	5048.0	5067.7	4610.2
27.5°	3825.7	3820.4	3870.4	3879.4	4029.5	4277.8	4719.2	4763.9	5205.2	5189.2	4622.8
30°	3918.7	3891.9	3922.3	4027.7	4097.4	4401.2	4915.8	4912.2	5409.0	5398.2	4662.1
32.5°	4033.1	4020.5	4040.2	4133.1	4251.1	4565.5	5082.0	5187.4	5616.2	5684.2	4797.8
35°	4054.5	4106.3	4152.8	4277.8	4445.8	4831.8	5394.7	5482.3	5855.7	6068.3	5056.9
37.5°	4190.3	4210.0	4318.9	4540.5	4694.2	5187.4	5593.0	5648.4	6073.7	6315.0	5330.4
40°	4335.1	4358.3	4522.7	4755.0	4965.8	5419.7	5778.9	5796.7	6143.4	6504.4	5509.0
42.5°	4531.6	4553.1	4715.6	5006.9	5289.2	5618.0	5943.3	5962.9	6138.0	6722.4	5793.2
45°	4735.3	4787.1	4978.3	5308.9	5562.7	5850.3	5980.8	6061.2	6188.0	6917.1	6023.7
47.5°	5021.2	5069.5	5226.7	5550.1	5846.7	6054.1	6154.1	6232.8	6307.8	7086.9	6172.0
50°	5325.0	5334.0	5525.2	5818.2	6036.1	6284.6	6477.5	6504.4	6465.1	7283.5	6424.0
52.5°	5548.3	5576.9	5725.2	6011.2	6336.3	6642.0	6906.4	6935.0	6858.1	7356.7	6509.7
55°	5178.4	5162.4	5403.6	5784.3	6538.3	7174.5	7558.6	7580.1	7144.1	7583.7	6790.3
57.5°	4002.7	4079.5	4285.0	4744.3	5809.2	7410.3	8062.6	7985.7	7487.1	7698.0	6968.9
60°	2909.1	2891.2	3028.8	3336.1	4377.9	6386.4	7623.0	7701.6	7206.6	6938.6	5746.7
62.5°	2369.4	2344.5	2355.1	2365.8	2825.1	4238.5	5643.1	5641.3	5550.1	4987.2	3875.8
65°	1894.2	1953.1	1958.4	2038.9	2097.8	2532.1	3270.0	3445.1	3000.2	2460.6	1785.1
67.5°	1427.7	1406.3	1477.8	1763.7	1874.5	1828.0	1785.1	1804.8	1283.0	925.6	872.0
70°	841.6	832.7	918.5	1229.4	1543.9	1452.8	1345.5	1347.3	881.0	646.8	720.1
72.5°	461.0	459.2	477.1	623.7	877.4	911.3	807.7	832.7	525.3	523.6	562.9
75°	257.3	252.0	246.6	275.1	316.3	334.2	341.3	344.9	361.0	403.9	419.9
77.5°	94.7	91.1	91.1	105.4	134.0	168.0	212.7	216.2	255.5	293.1	309.1
80°	32.2	35.7	48.2	66.1	89.3	119.7	144.8	148.3	180.5	205.5	210.9
82.5°	19.7	21.5	32.2	46.4	64.4	84.0	107.2	109.0	134.0	150.1	157.2
85°	8.9	10.7	17.9	28.6	41.1	55.4	57.2	57.2	55.4	57.2	53.6
87.5°	0.0	0.0	3.6	3.6	3.6	5.3	7.1	5.3	8.9	10.7	10.7
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°	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6	5403.6
2.5°	5355.3	5335.7	5275.0	5221.4	5205.2	5133.8	5028.3	5040.9	4964.1	4999.8	4962.3
5°	5282.1	5216.0	5060.5	4994.4	4821.1	4742.5	4688.8	4554.9	4492.3	4479.8	4426.1
7.5°	5094.5	5053.4	4858.6	4679.9	4495.8	4338.6	4136.7	3999.1	3900.8	3874.0	3795.4
10°	4946.1	4855.1	4585.2	4313.6	4050.9	3777.5	3514.9	3309.3	3209.3	3093.2	3053.9
12.5°	4799.6	4662.1	4297.5	3949.1	3609.6	3264.7	2946.6	2696.4	2478.4	2426.6	2408.7
15°	4708.5	4469.1	4040.2	3620.3	3137.8	2687.5	2369.4	2205.1	2071.0	2015.6	2055.0
17.5°	4588.8	4310.0	3793.6	3234.3	2703.6	2289.0	2022.8	1920.9	1872.7	1878.0	1862.0
20°	4438.7	4159.9	3470.2	2884.1	2315.8	1985.2	1833.4	1795.8	1803.0	1815.5	1810.1
22.5°	4331.5	3977.6	3236.1	2526.7	2001.3	1817.3	1754.8	1727.9	1751.2	1761.9	1753.0
25°	4249.3	3822.2	2952.0	2210.4	1819.1	1722.6	1694.0	1692.2	1727.9	1742.3	1733.3
27.5°	4174.3	3677.4	2669.6	1969.2	1697.5	1649.3	1640.4	1661.8	1685.0	1699.3	1711.9
30°	4129.5	3566.6	2405.1	1767.2	1636.8	1613.6	1597.5	1617.1	1629.7	1644.0	1636.8
32.5°	4172.5	3488.0	2149.6	1652.9	1586.7	1563.6	1585.0	1572.5	1594.0	1606.4	1586.7
35°	4306.4	3418.3	1967.4	1592.2	1529.6	1538.5	1542.1	1536.7	1545.6	1535.0	1558.2
37.5°	4438.7	3393.4	1799.4	1540.3	1502.8	1502.8	1499.2	1488.5	1506.3	1502.8	1513.5
40°	4606.6	3409.4	1656.4	1485.0	1477.8	1474.2	1459.9	1458.1	1451.0	1452.8	1456.3
42.5°	4753.2	3445.1	1574.3	1449.2	1454.6	1461.7	1434.9	1413.5	1422.4	1404.5	1404.5
45°	4908.6	3477.3	1501.0	1424.2	1418.8	1417.0	1395.5	1383.1	1375.9	1377.7	1393.8
47.5°	5153.5	3523.8	1445.6	1390.2	1393.8	1367.0	1361.6	1345.5	1352.7	1363.4	1365.2
50°	5326.7	3622.1	1402.7	1350.9	1363.4	1345.5	1313.4	1306.2	1306.2	1324.1	1320.5
52.5°	5448.3	3759.7	1361.6	1308.0	1313.4	1299.1	1288.3	1272.3	1261.6	1286.5	1299.1
55°	5820.0	3988.4	1350.9	1272.3	1270.5	1256.2	1236.5	1220.5	1215.1	1218.7	1243.7
57.5°	5784.3	3916.9	1316.9	1209.7	1206.1	1186.5	1166.8	1161.5	1159.7	1163.3	1170.4
60°	4696.0	2893.0	1175.8	1138.2	1132.9	1129.3	1109.7	1088.2	1077.5	1088.2	1079.3
62.5°	3107.4	1937.0	1036.4	1052.5	1056.0	1047.1	1015.0	993.5	997.1	1009.6	989.9
65°	1526.0	1138.2	939.9	982.8	986.3	961.4	931.0	905.9	893.5	904.2	895.2
67.5°	872.0	870.2	861.3	905.9	904.2	879.2	830.9	809.5	788.0	791.6	786.2
70°	739.8	754.1	772.0	798.7	796.9	768.4	711.2	695.1	664.8	661.2	652.2
72.5°	582.6	607.5	646.8	666.5	650.4	614.7	577.1	550.4	523.6	507.5	512.9
75°	432.5	468.2	489.6	502.1	477.1	457.4	427.0	394.9	362.8	348.4	343.1
77.5°	314.5	325.2	344.9	353.8	337.7	318.1	300.2	268.0	237.6	218.0	212.7
80°	219.8	226.9	241.2	241.2	241.2	232.3	209.1	176.9	157.2	139.4	135.8
82.5°	153.7	160.8	175.1	168.0	166.2	155.4	141.2	116.1	94.7	82.2	78.6
85°	53.6	59.0	71.5	85.7	91.1	89.3	80.4	64.4	50.0	41.1	37.5
87.5°	12.5	12.5	14.3	12.5	12.5	14.3	12.5	12.5	12.5	8.9	7.1
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)