

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: P455211

Luminaire Tested: **GALN-SA6B-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25047 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

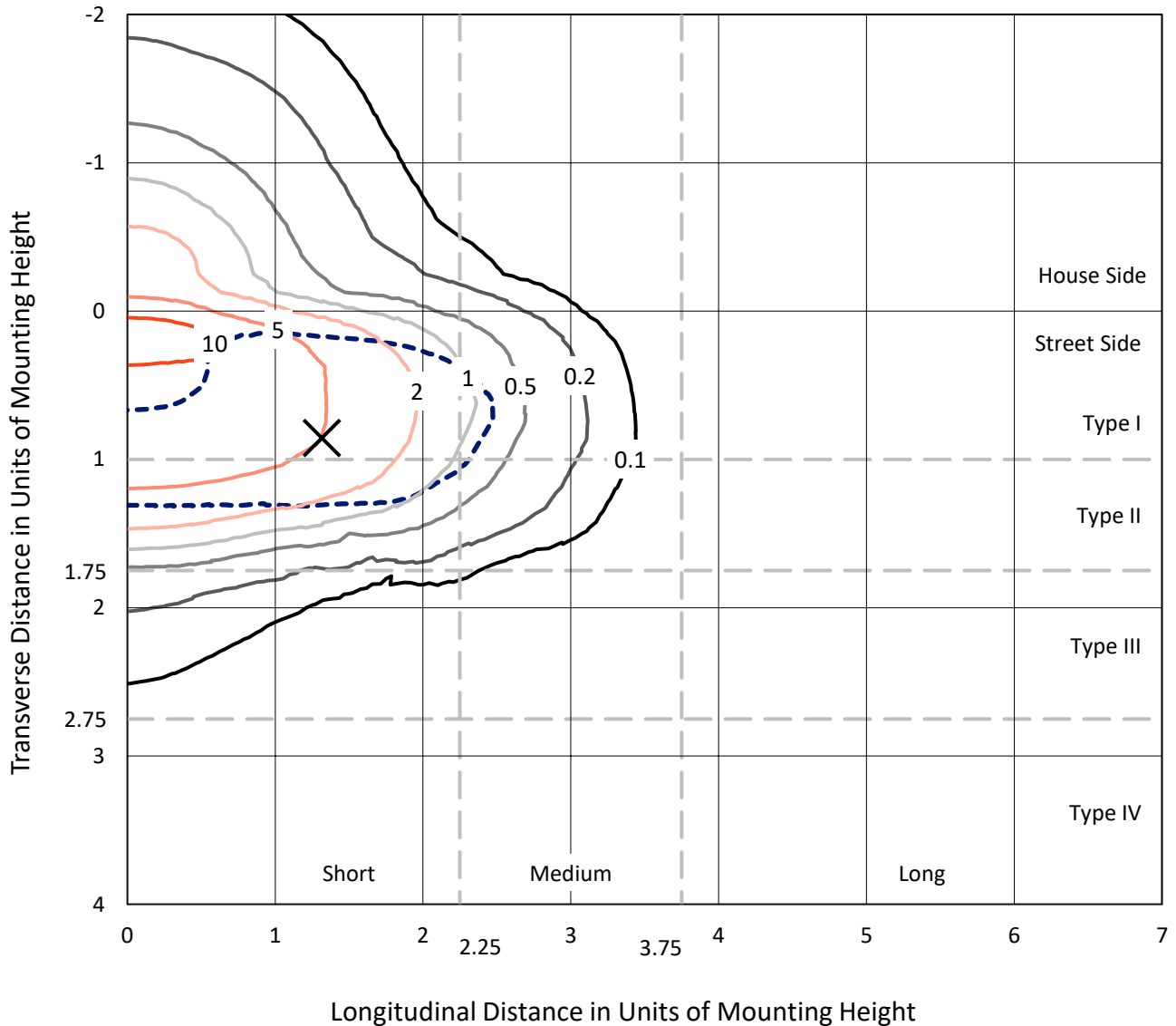
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

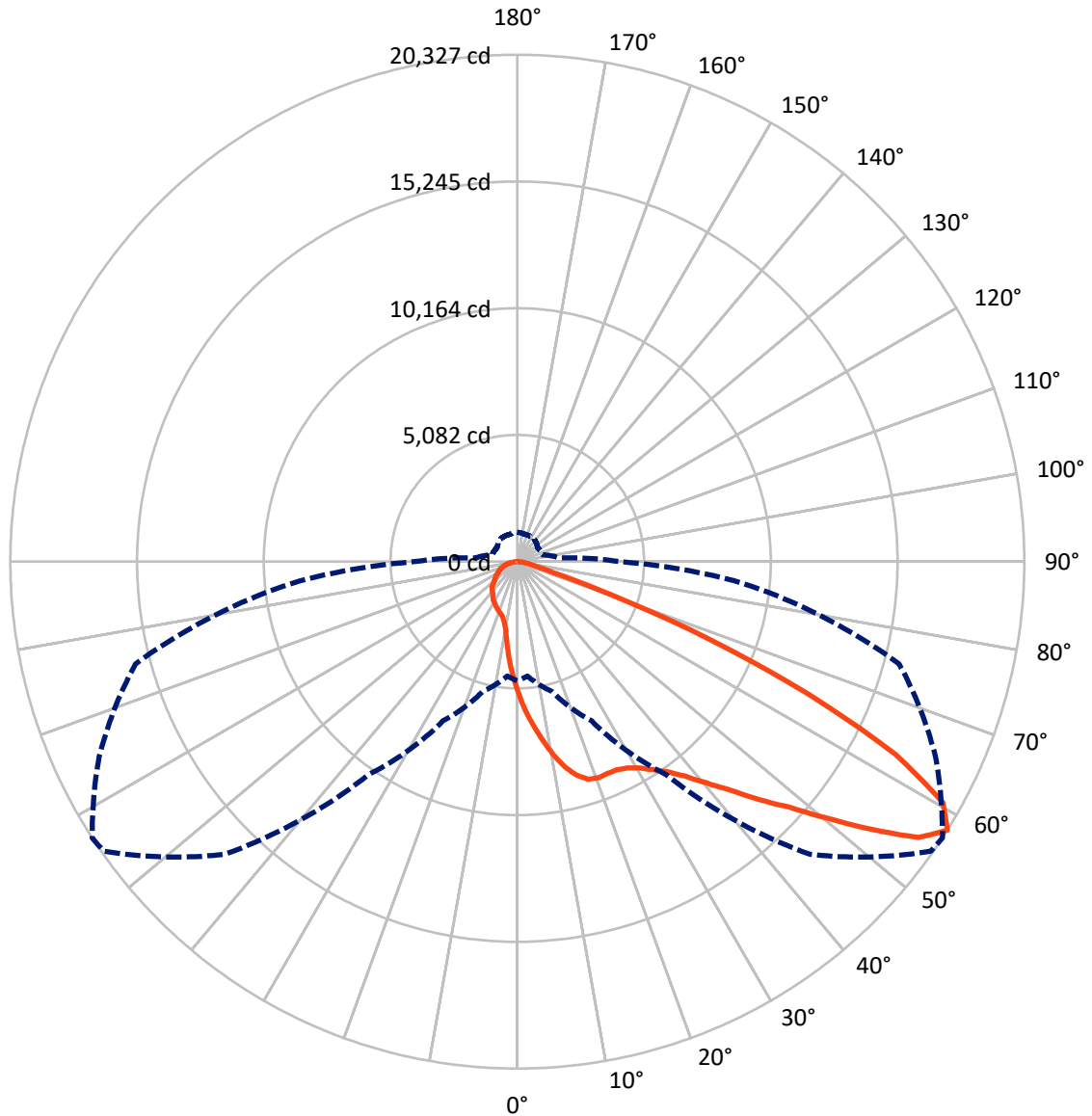
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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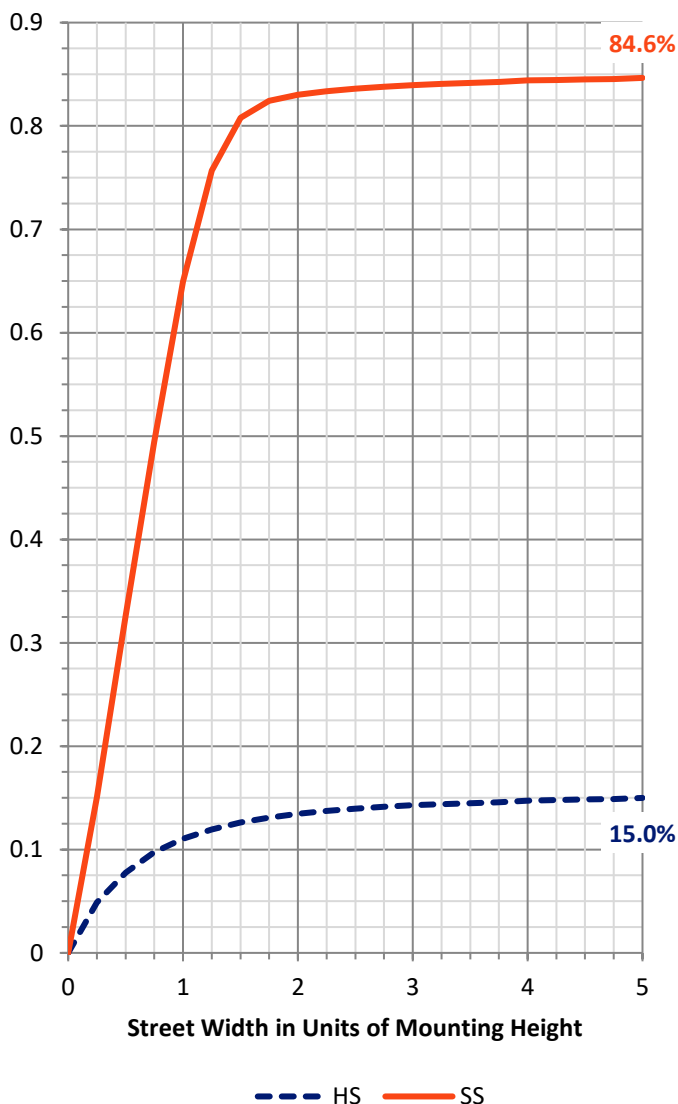
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3809.0	0.0	3809.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	21238.1	0.0	21238.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	25047.0	0.0	25047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	2.0
10°-20°	1490.4	6.0
20°-30°	2474.9	9.9
30°-40°	3727.9	14.9
40°-50°	5597.1	22.3
50°-60°	6273.7	25.0
60°-70°	3671.7	14.7
70°-80°	1086.1	4.3
80°-90°	219.5	0.9
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°	25047.0	100.0
0°-180°	25047.0	100.0

Coefficient of Utilization



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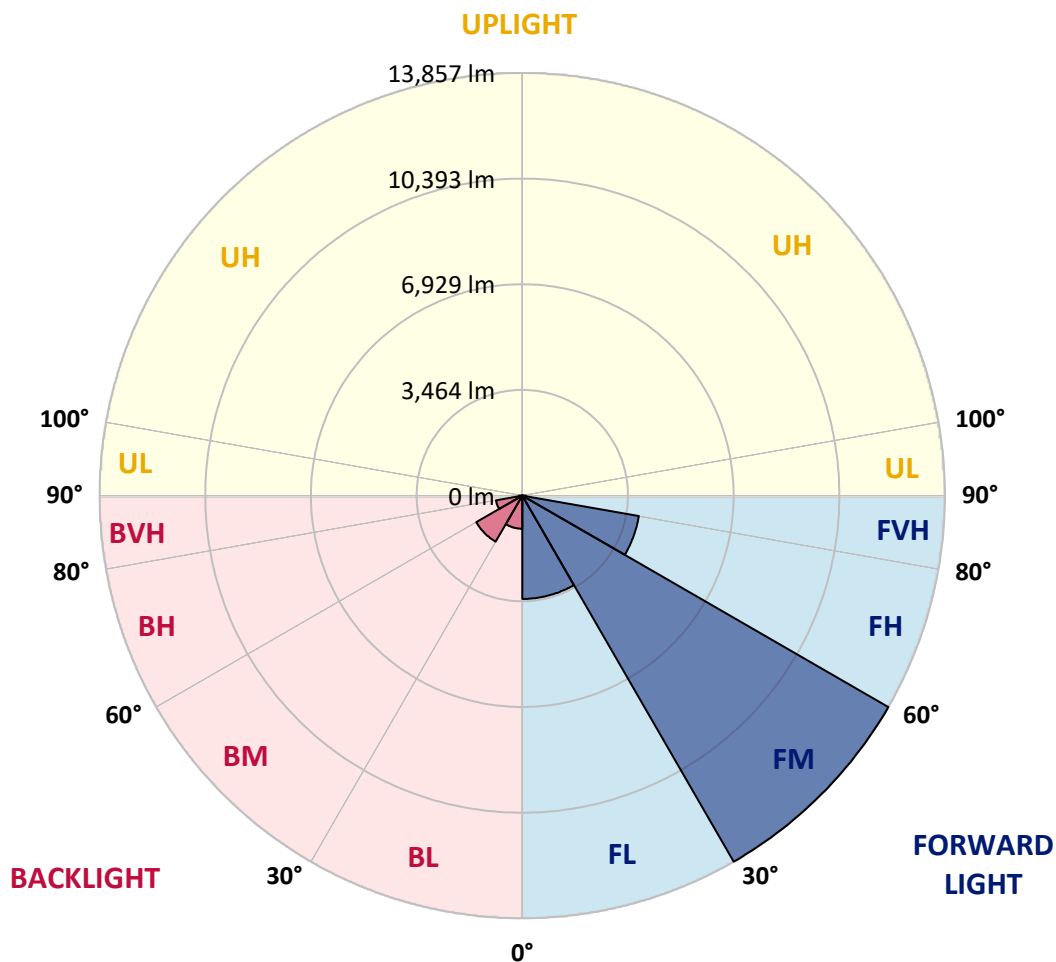
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3385.8	13.5			
FM	(30°-60°)	13857.1	55.3			
FH	(60°-80°)	3881.3	15.5			G2/5000
FVH	(80°-90°)	113.9	0.5			G2/225
BL	(0°-30°)	1085.3	4.3	B3/2500		
BM	(30°-60°)	1741.6	7.0	B2/2500		
BH	(60°-80°)	876.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	105.6	0.4			G2/225
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°	55°	57°	65°	75°	85°
0°	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	6538.5	6467.2	6411.0	6361.7	6297.2	6123.1	5949.0	5946.2	5807.8	5593.9	5374.5
5°	7603.8	7507.9	7520.2	7366.6	7213.1	6960.8	6592.0	6572.8	6278.0	5877.7	5470.5
7.5°	8297.6	8299.0	8260.6	8172.8	8006.9	7720.4	7302.2	7207.6	6797.7	6190.3	5580.2
10°	8261.9	8299.0	8363.4	8438.8	8489.5	8348.3	7967.2	7852.0	7318.7	6568.7	5702.2
12.5°	7787.6	7845.1	7937.0	8126.2	8432.0	8665.0	8534.8	8441.6	7921.9	6945.7	5836.6
15°	7491.4	7525.7	7576.4	7703.9	8033.0	8591.0	8928.3	8878.9	8490.9	7372.1	5987.4
17.5°	7400.9	7435.2	7451.7	7529.8	7764.3	8336.0	9083.2	9171.0	8995.5	7764.3	6139.6
20°	7491.4	7507.9	7507.9	7554.5	7738.2	8186.5	9076.3	9253.2	9409.5	8234.5	6282.1
22.5°	7728.6	7735.5	7725.9	7742.3	7879.4	8227.7	9011.9	9231.3	9744.0	8633.5	6393.2
25°	8113.9	8124.8	8061.8	8023.4	8123.5	8408.6	9047.6	9249.1	10005.9	9014.7	6467.2
27.5°	8551.2	8564.9	8488.2	8399.0	8445.7	8632.1	9187.4	9368.4	10202.0	9390.3	6513.9
30°	9087.3	9092.8	8963.9	8857.0	8826.8	8965.3	9426.0	9594.6	10446.0	9833.2	6583.8
32.5°	9635.7	9676.9	9511.0	9360.2	9309.4	9351.9	9778.3	9941.5	10736.7	10308.9	6696.2
35°	10381.6	10388.4	10189.6	10005.9	9838.7	9893.5	10229.4	10347.3	11138.4	10858.7	6855.2
37.5°	11312.5	11375.6	11101.4	10758.6	10553.0	10473.4	10775.1	10904.0	11701.9	11533.3	7095.2
40°	12346.3	12369.6	12135.2	11921.3	11545.6	11315.3	11523.7	11663.5	12397.0	12338.1	7373.5
42.5°	12996.2	13046.9	13064.7	13042.8	12760.4	12373.7	12453.2	12519.1	13219.7	13093.5	7658.7
45°	13215.5	13291.0	13546.0	14086.2	14116.3	13735.2	13550.1	13613.2	14116.3	13855.8	7931.5
47.5°	12852.2	12981.1	13451.4	14559.2	15388.7	15417.5	14859.4	14721.0	14933.5	14487.9	8129.0
50°	11913.0	11940.5	12660.3	14264.4	15985.1	17025.7	16448.5	16190.7	15709.5	14955.4	8264.7
52.5°	10459.7	10491.3	11094.5	12894.7	15617.6	18150.0	18307.6	17847.0	16497.8	15318.7	8353.8
55°	7764.3	7946.6	8610.2	10350.1	13876.4	18044.4	19785.6	19523.7	17450.7	15606.7	8493.7
57.5°	4774.0	4606.7	5393.7	7041.7	10436.4	16593.8	20242.2	20327.2	18499.6	15848.0	8728.1
60°	2196.4	2229.3	2554.3	3631.9	6361.7	12981.1	19065.8	19603.3	19079.5	15839.7	8787.1
62.5°	1513.6	1483.5	1401.2	1594.5	2901.1	8209.8	16104.3	17014.7	17916.9	15347.5	8552.6
65°	1353.2	1323.1	1164.0	1110.6	1332.7	3578.4	11707.4	12856.3	15085.7	14105.4	7968.5
67.5°	1264.1	1223.0	1058.5	954.3	951.5	1424.5	6903.2	8286.6	11189.1	11925.4	6904.6
70°	1170.9	1138.0	974.8	859.6	810.3	895.3	3034.1	3971.9	7265.2	8593.7	5378.6
72.5°	1077.6	1039.3	892.6	769.2	704.7	670.4	1162.6	1512.3	4104.9	5152.4	3297.4
75°	941.9	922.7	798.0	696.5	626.6	541.6	737.6	841.8	1963.3	2366.4	1654.9
77.5°	824.0	803.4	708.8	608.7	558.0	440.1	523.7	571.7	828.1	959.7	747.2
80°	603.3	623.8	597.8	537.5	497.7	345.5	352.4	392.1	492.2	544.3	456.6
82.5°	382.5	420.9	460.7	414.1	377.0	272.8	244.0	259.1	335.9	356.5	202.9
85°	160.4	163.2	267.4	252.3	215.3	161.8	146.7	154.9	179.6	187.8	94.6
87.5°	61.7	60.3	94.6	87.7	67.2	46.6	46.6	52.1	71.3	65.8	30.2
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°	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	5279.9	5182.6	4989.2	4749.3	4573.8	4376.4	4202.3	4077.5	4030.9	4008.9	3967.8
5°	5275.8	5083.9	4683.5	4264.0	3926.7	3581.2	3289.1	3099.9	3083.5	2957.4	2945.0
7.5°	5277.2	4983.8	4346.2	3729.3	3215.1	2861.4	2620.1	2557.0	2481.6	2462.4	2472.0
10°	5281.3	4856.3	3984.3	3200.0	2702.3	2470.6	2380.1	2355.5	2358.2	2366.4	2367.8
12.5°	5286.8	4732.9	3608.6	2798.3	2414.4	2318.4	2308.8	2330.8	2354.1	2371.9	2376.0
15°	5293.6	4591.6	3242.5	2474.7	2270.5	2262.2	2293.8	2330.8	2363.7	2389.7	2393.9
17.5°	5285.4	4427.1	2935.4	2275.9	2190.9	2230.7	2282.8	2329.4	2359.6	2384.3	2387.0
20°	5266.2	4243.4	2639.3	2136.1	2141.6	2206.0	2262.2	2306.1	2339.0	2351.3	2360.9
22.5°	5192.2	4024.0	2381.5	2027.8	2082.6	2171.7	2238.9	2265.0	2228.0	2201.9	2208.8
25°	5066.0	3738.9	2141.6	1940.0	2029.2	2123.8	2192.3	2129.2	2099.1	2088.1	2093.6
27.5°	4908.4	3426.3	1960.6	1848.2	1960.6	2070.3	2051.1	2040.1	2026.4	2008.6	2012.7
30°	4738.3	3120.5	1807.0	1776.9	1886.6	1949.6	1957.9	1975.7	1960.6	1933.2	1944.1
32.5°	4580.7	2832.6	1690.5	1716.6	1834.5	1824.9	1886.6	1907.1	1837.2	1745.3	1749.5
35°	4446.3	2565.2	1602.8	1657.6	1745.3	1749.5	1811.2	1739.9	1664.5	1620.6	1623.3
37.5°	4344.9	2356.8	1545.2	1606.9	1631.5	1683.6	1650.7	1613.7	1604.1	1574.0	1575.3
40°	4284.5	2174.5	1508.2	1567.1	1563.0	1598.6	1493.1	1530.1	1543.8	1534.2	1535.6
42.5°	4224.2	2045.6	1469.8	1512.3	1510.9	1441.0	1417.7	1449.2	1484.8	1489.0	1486.2
45°	4176.2	1945.5	1430.0	1428.6	1456.1	1346.4	1339.5	1358.7	1409.4	1434.1	1432.7
47.5°	4122.7	1861.9	1369.7	1331.3	1339.5	1287.4	1276.4	1284.7	1346.4	1386.1	1397.1
50°	4055.6	1778.3	1294.3	1242.2	1207.9	1232.6	1235.3	1236.7	1298.4	1343.6	1353.2
52.5°	4002.1	1715.2	1207.9	1169.5	1128.4	1183.2	1203.8	1206.5	1243.5	1280.6	1287.4
55°	4033.6	1679.5	1122.9	1095.5	1058.5	1132.5	1172.2	1177.7	1186.0	1213.4	1217.5
57.5°	4128.2	1687.8	1054.3	1018.7	991.3	1072.2	1139.3	1143.5	1138.0	1170.9	1176.4
60°	4157.0	1683.6	1003.6	933.7	917.2	1007.7	1091.4	1099.6	1098.2	1146.2	1155.8
62.5°	4036.4	1631.5	952.9	862.4	851.4	941.9	1024.2	1057.1	1063.9	1132.5	1144.8
65°	3752.6	1524.6	885.7	787.0	787.0	872.0	959.7	1005.0	1024.2	1116.0	1129.7
67.5°	3378.3	1398.5	817.1	722.5	719.8	804.8	891.2	937.8	968.0	1092.7	1101.0
70°	2803.8	1228.5	732.1	652.6	652.6	729.4	807.5	863.8	907.6	1048.9	1048.9
72.5°	1920.8	1021.4	629.3	573.1	574.5	645.8	725.3	788.4	840.5	961.1	963.8
75°	1214.7	798.0	516.9	488.1	493.6	560.8	643.0	708.8	813.0	950.1	954.3
77.5°	645.8	560.8	411.3	404.5	411.3	473.0	564.9	655.4	815.8	824.0	810.3
80°	418.2	397.6	324.9	311.2	314.0	381.2	503.2	622.5	655.4	663.6	633.4
82.5°	227.6	252.3	230.3	216.6	216.6	297.5	429.1	494.9	470.3	390.7	372.9
85°	97.3	117.9	119.3	104.2	100.1	183.7	287.9	270.1	250.9	239.9	237.2
87.5°	27.4	38.4	38.4	28.8	21.9	50.7	57.6	16.5	0.0	1.4	2.7
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)