

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: P946295

Luminaire Tested: **GALN-SB2A-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8432 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 57.3
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



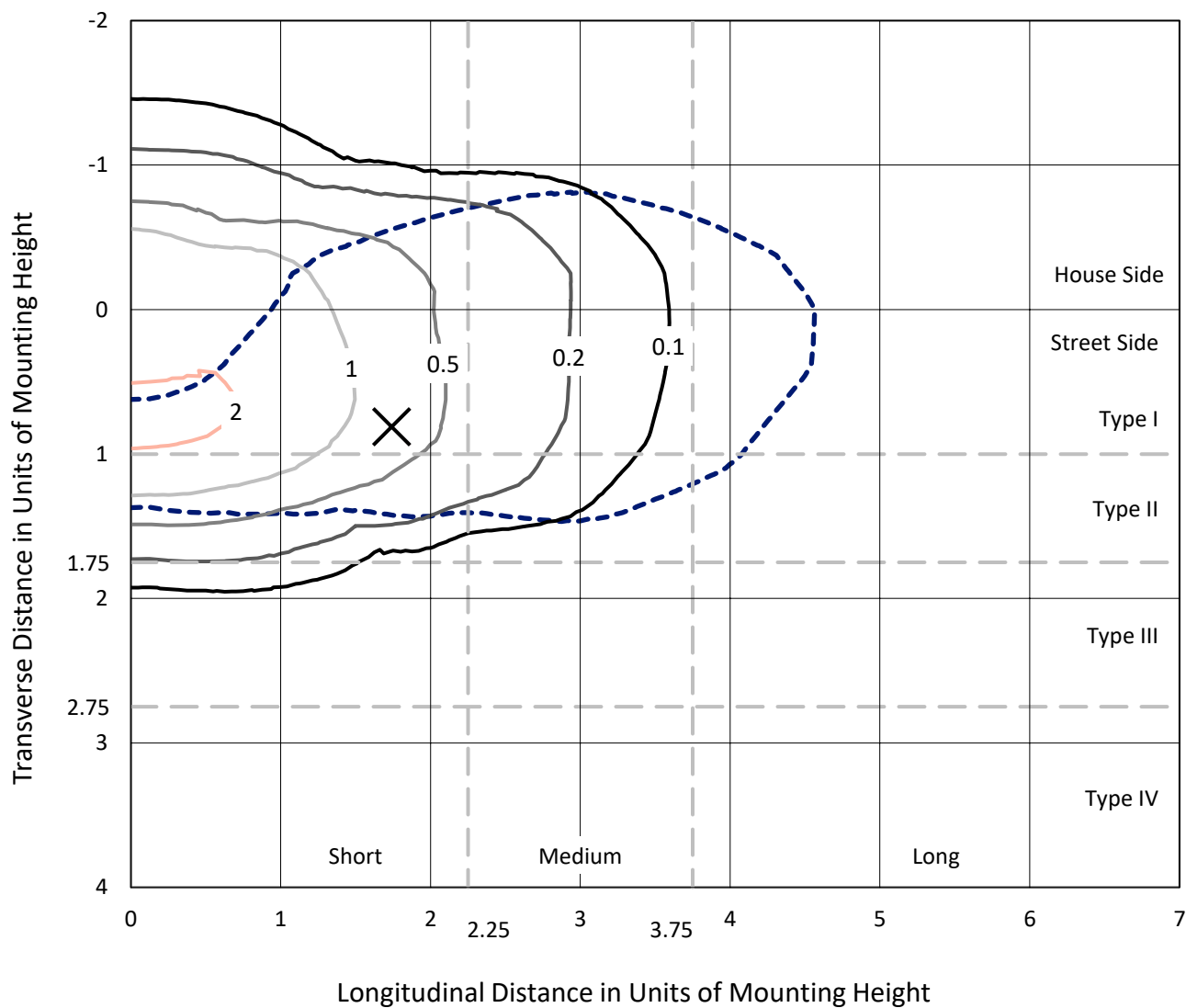
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



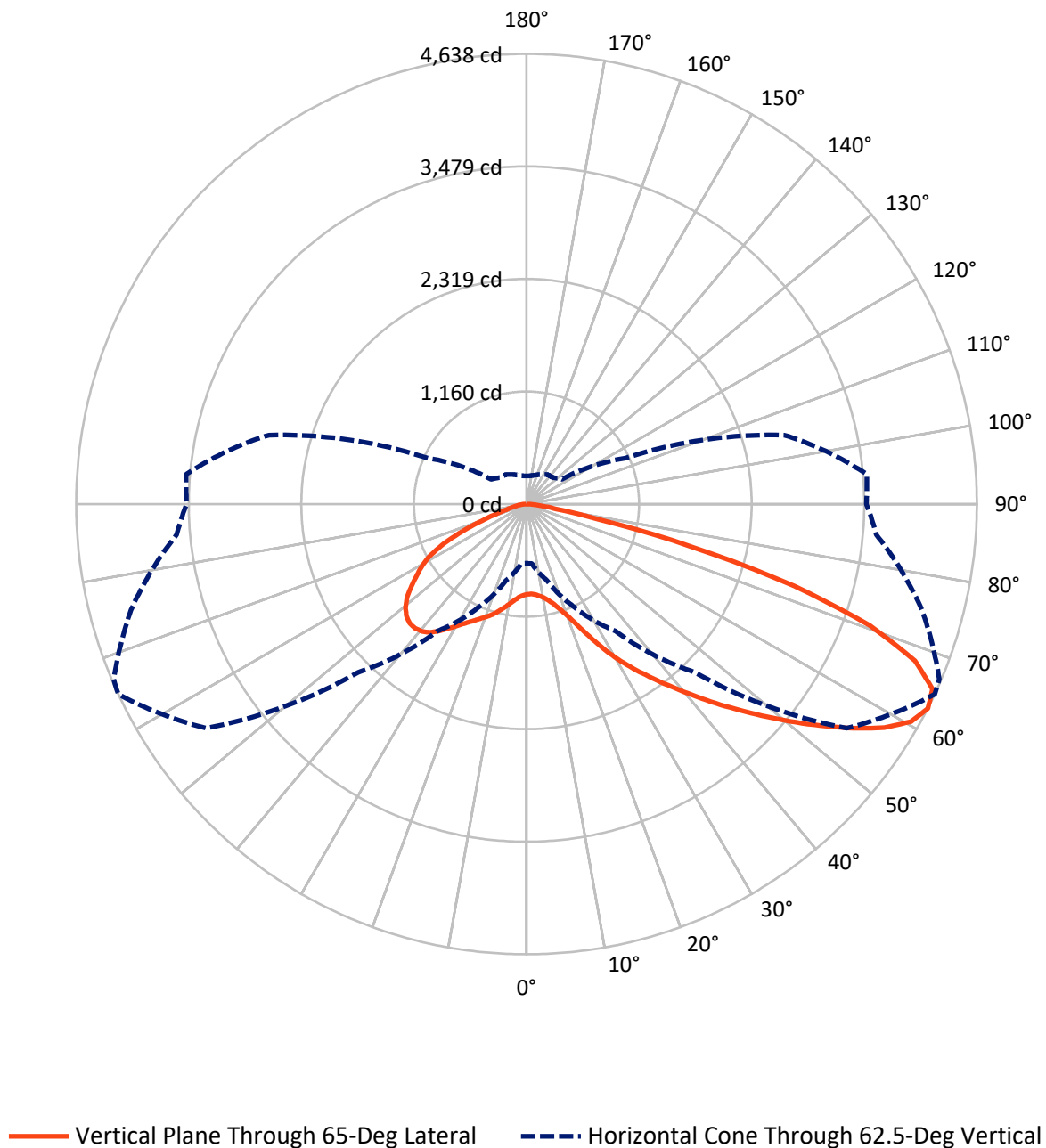
Based on 25 foot mounting height. Maximum calculated value = 2.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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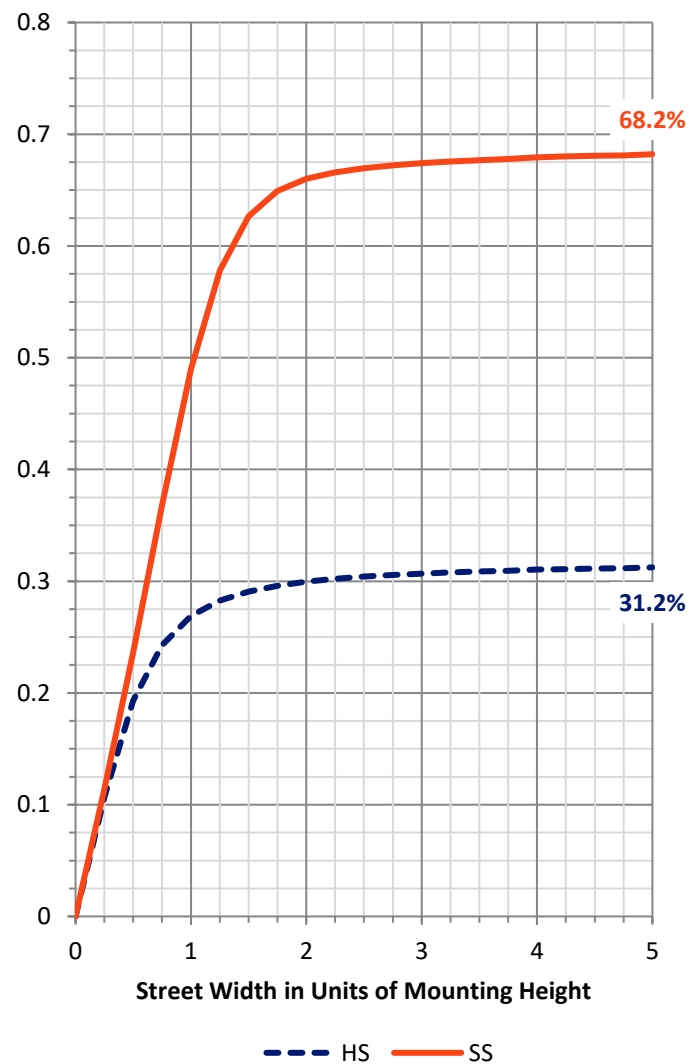
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2660.8	0.0	2660.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5771.2	0.0	5771.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	8432.0	0.0	8432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.1
10°-20°	314.1	3.7
20°-30°	637.0	7.6
30°-40°	1102.2	13.1
40°-50°	1668.0	19.8
50°-60°	1955.7	23.2
60°-70°	1639.6	19.4
70°-80°	905.2	10.7
80°-90°	117.6	1.4
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°	8432.0	100.0
0°-180°	8432.0	100.0

Coefficient of Utilization



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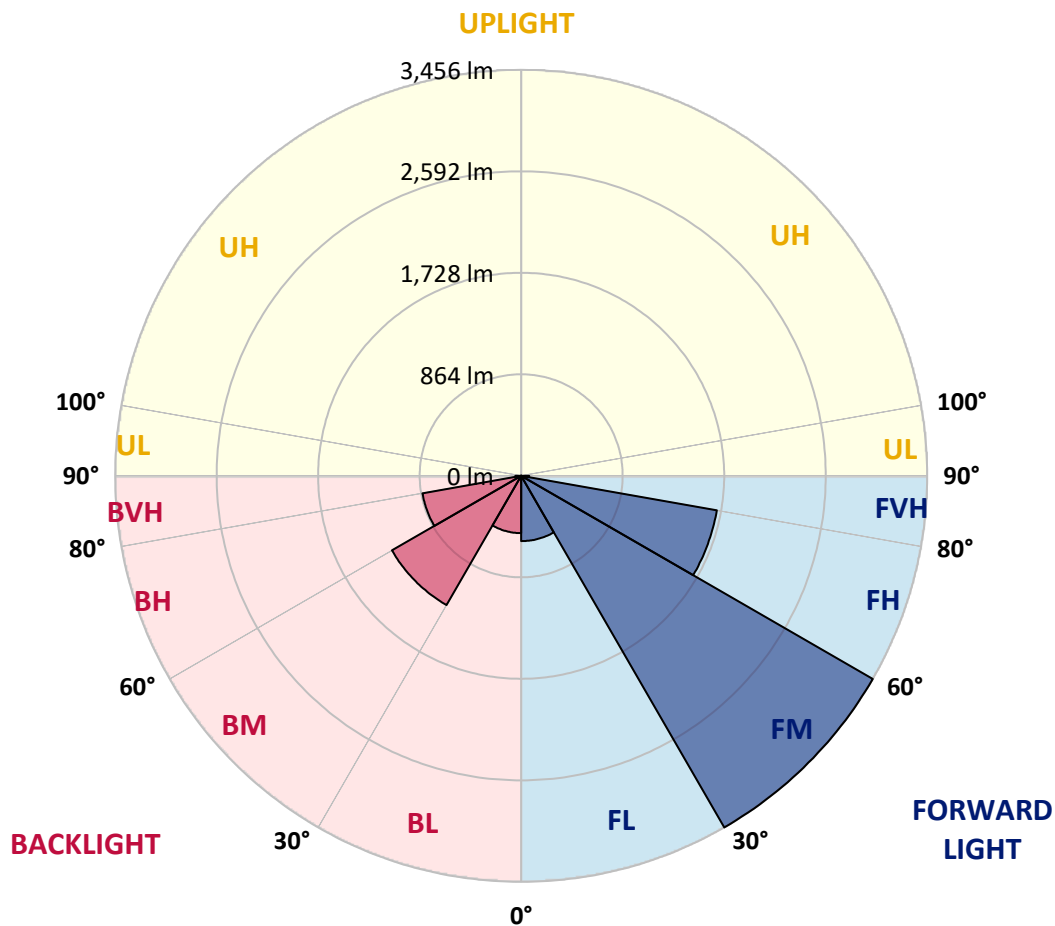
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.8	6.6			
FM	(30°-60°)	3455.7	41.0			
FH	(60°-80°)	1691.2	20.1			G1/1800
FVH	(80°-90°)	68.5	0.8			G1/100
BL	(0°-30°)	488.0	5.8	B1/500		
BM	(30°-60°)	1270.2	15.1	B2/2500		
BH	(60°-80°)	853.6	10.1	B2/1000		G2/1000
BVH	(80°-90°)	49.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	923.0	920.4	922.6	922.6	923.5	923.0	926.1	927.0	928.3	930.9	930.9
5°	913.9	913.4	917.4	920.9	924.4	927.4	931.4	937.0	937.9	941.0	944.9
7.5°	910.8	908.2	914.3	918.7	927.0	934.4	944.9	954.5	958.5	959.8	967.2
10°	934.4	930.0	935.7	938.4	945.4	952.8	965.0	980.4	984.7	990.0	998.3
12.5°	974.7	969.9	978.2	982.1	988.7	995.2	1003.5	1018.4	1020.6	1030.2	1038.1
15°	1029.8	1024.1	1029.3	1034.2	1045.1	1051.2	1059.5	1074.0	1074.0	1081.4	1087.1
17.5°	1104.6	1097.2	1101.1	1102.8	1109.8	1119.0	1133.0	1145.7	1152.3	1149.7	1141.8
20°	1216.1	1207.0	1207.0	1198.2	1195.6	1203.0	1221.4	1238.9	1245.9	1232.3	1213.1
22.5°	1383.7	1370.6	1363.1	1333.4	1321.6	1322.4	1340.8	1362.3	1367.9	1343.9	1300.6
25°	1596.7	1576.2	1566.1	1522.4	1495.7	1472.5	1486.9	1514.5	1522.4	1492.6	1422.6
27.5°	1809.8	1811.1	1801.5	1749.0	1704.8	1662.4	1654.9	1683.8	1692.1	1658.4	1571.8
30°	2108.6	2077.5	2059.1	1996.1	1933.1	1873.7	1843.0	1854.8	1857.0	1816.8	1716.2
32.5°	2366.2	2358.4	2319.0	2263.9	2182.9	2089.8	2038.6	2019.8	2016.3	1959.0	1839.5
35°	2659.8	2655.4	2613.8	2548.2	2460.7	2331.2	2238.9	2185.1	2180.7	2100.3	1961.6
37.5°	2958.1	2958.1	2917.4	2845.7	2755.1	2593.3	2452.9	2367.5	2353.5	2248.6	2085.8
40°	3196.1	3181.7	3189.1	3158.9	3055.2	2883.3	2690.4	2566.6	2547.8	2421.8	2217.9
42.5°	3331.3	3326.5	3371.1	3404.8	3362.3	3225.0	2952.0	2782.3	2756.0	2612.5	2370.2
45°	3361.5	3356.2	3435.8	3559.2	3618.7	3562.3	3236.3	3009.3	2977.4	2812.0	2533.3
47.5°	3291.9	3281.4	3398.2	3592.9	3783.6	3882.9	3544.3	3255.6	3209.2	3006.2	2700.9
50°	3082.8	3072.7	3249.5	3508.0	3839.2	4100.8	3878.5	3516.8	3445.9	3214.5	2870.2
52.5°	2628.3	2633.1	2910.0	3265.2	3766.1	4236.4	4166.4	3791.9	3706.6	3427.5	3029.0
55°	2047.3	2057.8	2398.2	2789.3	3473.9	4215.8	4362.8	4075.4	3990.5	3627.9	3193.0
57.5°	1465.9	1512.3	1831.2	2218.4	2912.6	3889.9	4405.7	4344.9	4262.6	3846.6	3353.6
60°	950.2	958.5	1286.6	1676.8	2217.9	3310.7	4318.6	4549.2	4484.9	4069.7	3487.9
62.5°	608.9	614.6	814.6	1172.8	1596.3	2449.4	4025.5	4638.0	4618.3	4217.1	3616.9
65°	447.5	443.1	547.3	775.2	1075.3	1510.6	3456.4	4595.1	4634.0	4309.4	3723.7
67.5°	373.6	367.5	418.7	536.8	792.2	857.9	2557.4	4316.4	4459.1	4298.9	3802.0
70°	340.3	335.1	366.2	398.5	618.1	574.4	1289.2	3752.6	3972.2	4179.5	3789.3
72.5°	288.3	279.1	321.5	353.9	480.8	440.5	532.8	2882.4	3150.2	3796.7	3610.8
75°	223.5	217.4	253.7	311.5	361.3	343.8	336.8	1750.3	2042.5	2936.2	3158.9
77.5°	177.2	168.9	202.1	242.8	325.0	259.4	245.4	753.7	1043.3	1874.5	2363.6
80°	133.4	126.0	153.5	192.0	249.8	195.5	158.8	307.5	393.3	949.7	1188.6
82.5°	94.9	88.4	107.2	140.9	168.0	175.4	97.6	172.4	193.8	366.2	265.5
85°	60.8	56.9	71.7	88.4	106.7	112.9	59.5	90.1	98.9	150.9	110.7
87.5°	33.2	27.1	38.5	41.1	49.4	45.1	28.4	32.8	35.4	54.7	46.8
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°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	932.7	934.0	938.4	939.7	942.7	946.7	949.3	951.9	951.9	954.5	954.5
5°	945.4	948.4	957.6	962.4	970.3	978.2	983.0	988.7	992.2	993.9	994.8
7.5°	969.9	974.7	987.8	996.1	1009.7	1020.6	1028.0	1035.9	1037.7	1042.5	1040.7
10°	1003.1	1008.8	1023.7	1039.4	1055.6	1069.2	1076.2	1081.8	1084.0	1084.9	1082.7
12.5°	1041.2	1049.5	1068.7	1088.0	1105.0	1116.8	1118.6	1117.3	1111.2	1105.9	1105.9
15°	1088.0	1095.4	1116.8	1137.8	1154.5	1156.7	1145.7	1138.7	1131.3	1130.0	1130.0
17.5°	1144.0	1147.9	1167.6	1188.1	1189.5	1182.0	1165.8	1159.3	1152.3	1147.5	1147.9
20°	1209.1	1207.8	1221.8	1230.6	1221.4	1198.6	1174.1	1163.2	1156.2	1150.5	1151.0
22.5°	1287.0	1277.0	1275.2	1273.0	1248.5	1200.8	1167.6	1153.6	1142.7	1134.8	1137.4
25°	1400.3	1361.8	1335.1	1320.3	1265.1	1189.0	1146.6	1115.5	1095.0	1081.4	1086.7
27.5°	1542.1	1477.3	1409.9	1373.6	1265.1	1165.0	1095.8	1045.5	1011.9	997.9	1004.9
30°	1677.2	1609.4	1510.1	1437.9	1262.1	1125.6	1014.0	944.0	904.7	890.7	899.0
32.5°	1792.7	1718.8	1616.4	1508.4	1254.6	1061.7	912.5	835.1	797.1	780.4	788.7
35°	1899.9	1821.2	1723.2	1585.8	1235.0	968.1	801.0	741.9	699.5	672.8	681.6
37.5°	2009.7	1916.1	1824.2	1655.8	1199.5	858.7	715.3	664.9	615.1	579.2	588.8
40°	2129.1	2017.1	1932.3	1697.4	1141.3	754.6	648.8	602.8	549.9	511.8	519.3
42.5°	2268.7	2138.3	2052.6	1718.8	1061.7	680.7	605.4	560.4	510.5	479.5	485.6
45°	2414.4	2271.7	2162.4	1718.4	972.9	646.1	591.4	546.8	491.7	459.3	464.6
47.5°	2567.0	2411.3	2257.3	1690.4	895.9	650.9	583.6	517.5	456.7	425.2	429.6
50°	2720.1	2564.0	2349.2	1637.9	863.1	640.4	554.3	476.4	404.7	376.2	378.0
52.5°	2871.9	2726.3	2428.4	1563.1	829.9	601.5	516.6	423.0	383.2	363.5	363.5
55°	3024.6	2886.8	2514.5	1454.1	746.7	556.0	453.6	402.9	366.2	348.2	346.5
57.5°	3177.7	3072.3	2596.3	1345.2	642.2	500.0	419.1	378.4	349.1	333.8	331.2
60°	3337.0	3284.5	2680.8	1245.0	539.0	428.3	393.7	358.7	329.0	311.9	310.6
62.5°	3501.0	3518.1	2746.8	1116.0	444.0	384.5	371.0	335.1	306.2	290.0	289.6
65°	3666.4	3743.4	2790.1	937.0	360.0	343.0	346.5	309.3	280.0	266.0	265.5
67.5°	3791.0	3905.7	2777.9	709.1	295.3	303.6	315.8	282.2	254.6	243.7	244.1
70°	3805.0	3886.4	2657.1	485.6	247.2	265.1	281.7	255.5	227.0	219.2	219.6
72.5°	3618.7	3623.9	2320.7	317.2	209.1	232.7	245.9	228.4	200.8	192.9	192.5
75°	3130.0	2997.1	1703.9	209.1	175.0	199.9	212.2	199.9	173.2	175.0	168.9
77.5°	2371.5	2122.6	1034.6	148.7	146.1	168.0	184.6	175.9	153.1	171.9	151.4
80°	1221.8	1148.3	461.5	111.1	115.5	134.3	151.8	140.4	121.2	115.5	105.4
82.5°	280.0	325.5	182.0	79.6	83.6	96.7	115.9	105.4	87.1	73.5	72.6
85°	98.0	107.2	80.5	49.9	49.0	60.4	78.7	70.4	59.1	47.2	49.9
87.5°	31.1	40.7	30.2	20.1	21.0	27.1	36.3	33.2	27.6	17.9	18.8
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)