

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: P939407

Luminaire Tested: **GALN-SB2A-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8326 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - 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

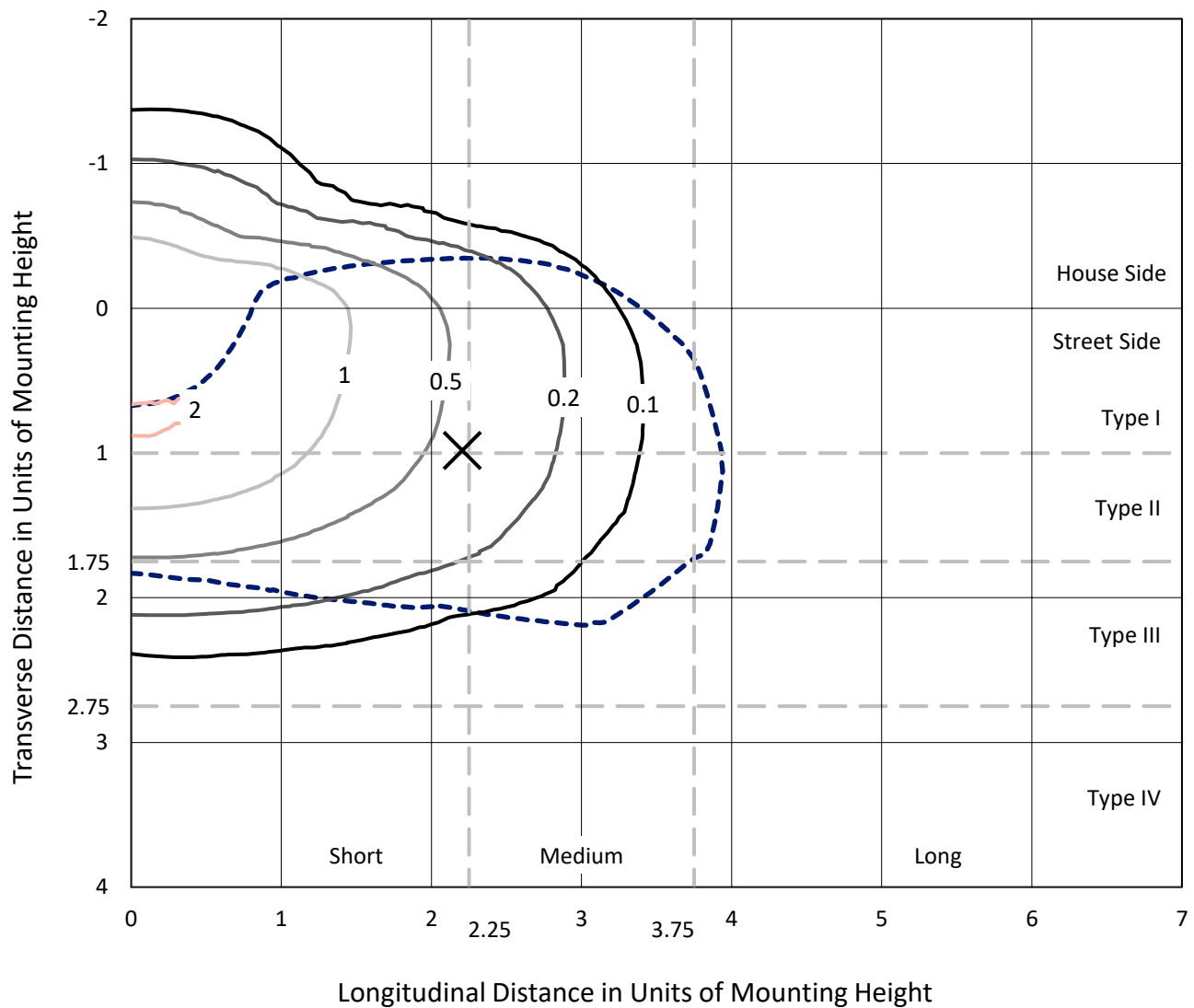


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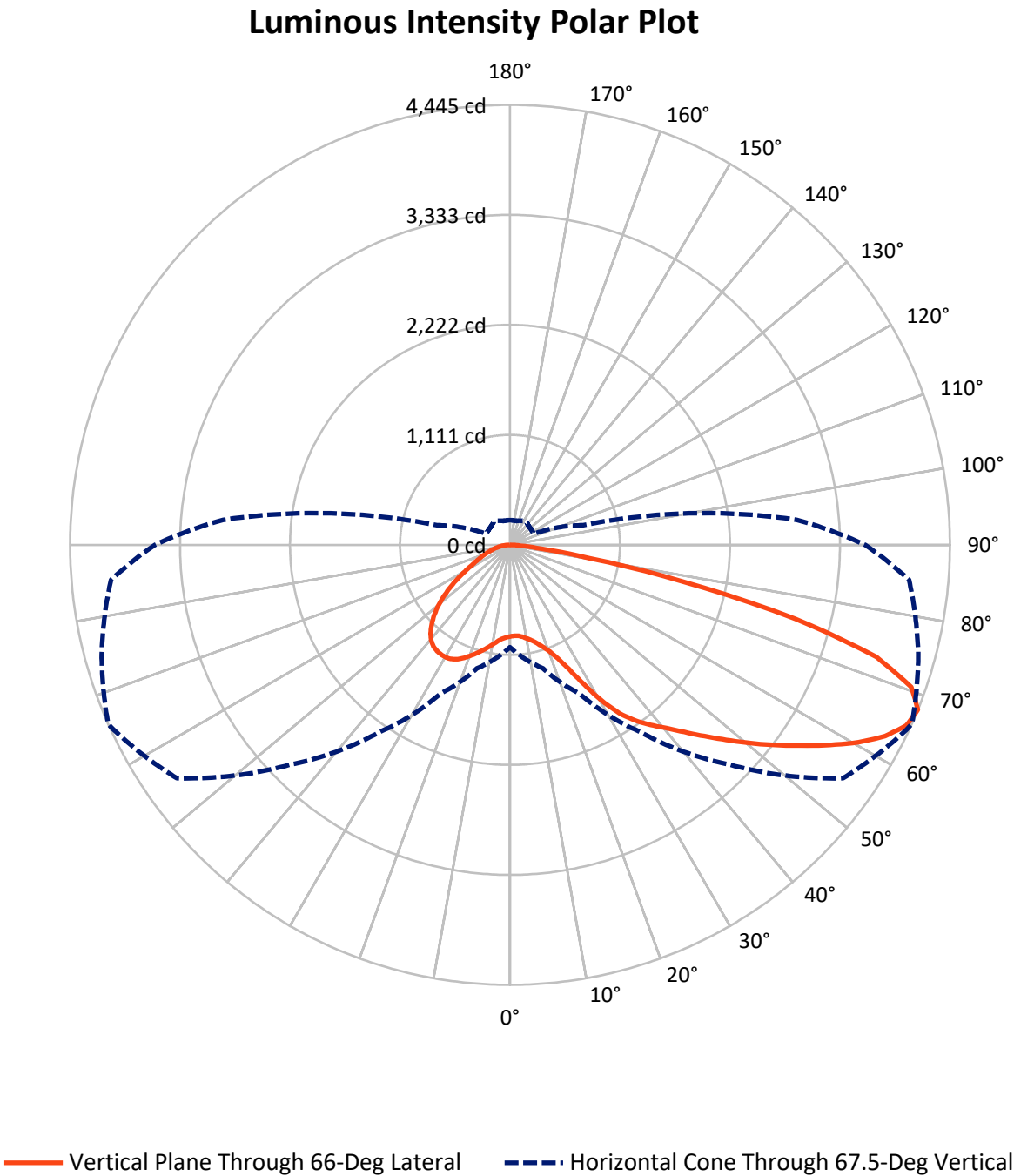
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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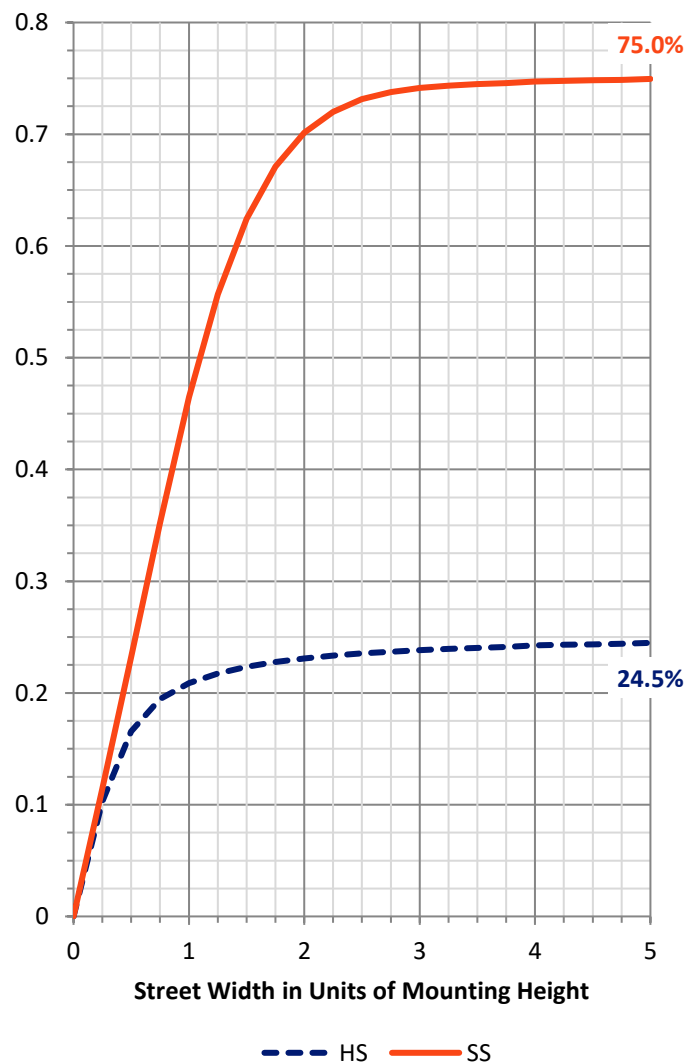
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2070.2	0.0	2070.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	6255.8	0.0	6255.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	8326.0	0.0	8326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.1
10°-20°	302.5	3.6
20°-30°	583.0	7.0
30°-40°	1022.3	12.3
40°-50°	1519.8	18.3
50°-60°	1926.5	23.1
60°-70°	1885.0	22.6
70°-80°	899.2	10.8
80°-90°	96.1	1.2
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°	8326.0	100.0
0°-180°	8326.0	100.0

Coefficient of Utilization



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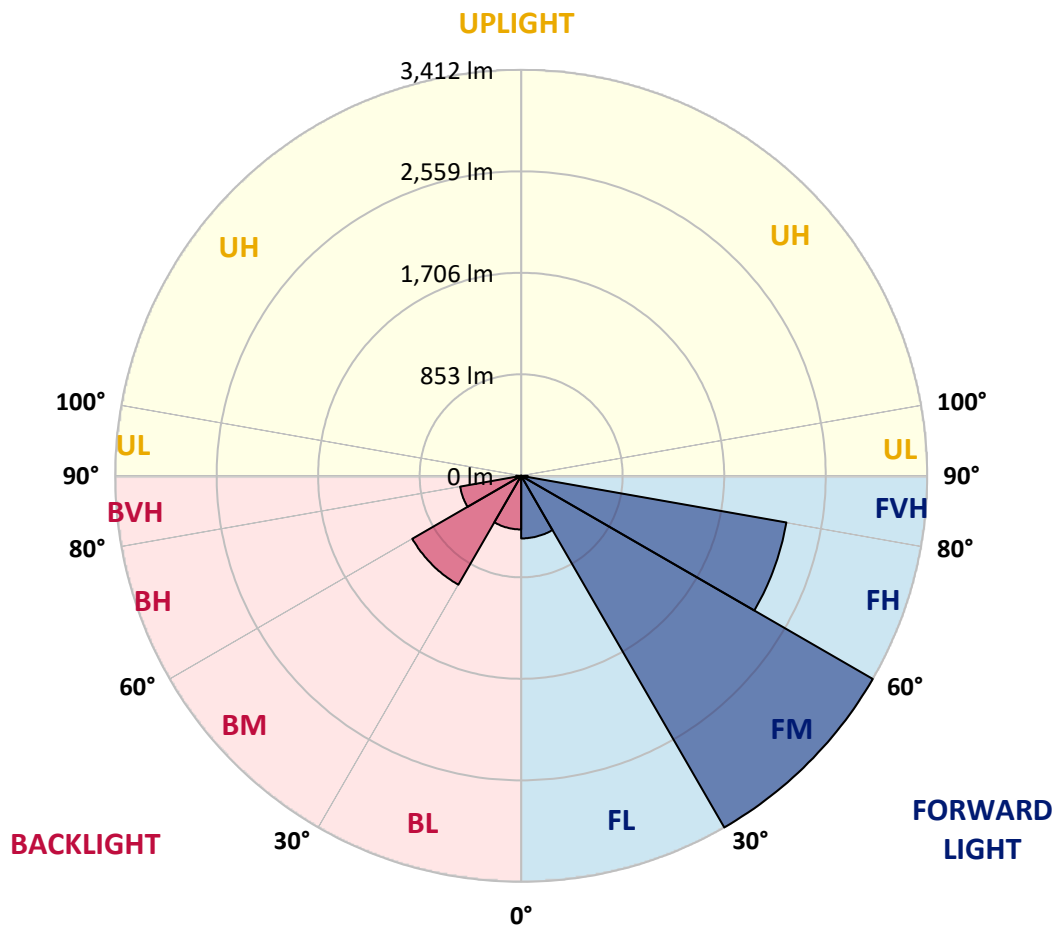
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.1	6.3			
FM	(30°-60°)	3411.9	41.0			
FH	(60°-80°)	2263.2	27.2			G2/5000
FVH	(80°-90°)	54.5	0.7			G1/100
BL	(0°-30°)	451.0	5.4	B1/500		
BM	(30°-60°)	1056.7	12.7	B2/2500		
BH	(60°-80°)	521.0	6.3	B2/1000		G2/1000
BVH	(80°-90°)	41.6	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	923.5	923.5	923.5	923.5	923.5	923.5	923.5	923.5	923.5	923.5	923.5
2.5°	913.8	919.1	917.8	915.6	915.2	916.0	917.3	918.7	918.2	920.4	923.9
5°	911.2	916.5	916.0	916.0	917.8	921.3	923.5	925.7	923.5	926.1	930.9
7.5°	913.0	916.9	918.7	920.4	924.8	931.3	936.6	941.4	938.8	941.8	948.0
10°	935.3	938.3	940.1	940.1	943.1	950.6	955.8	964.6	962.4	967.2	975.1
12.5°	976.0	979.0	979.0	977.3	979.5	984.3	986.0	995.6	991.7	999.6	1007.5
15°	1025.8	1032.0	1027.1	1024.1	1025.0	1029.8	1029.3	1036.8	1032.8	1039.4	1046.4
17.5°	1080.9	1088.8	1080.9	1080.5	1078.8	1084.0	1084.4	1091.0	1084.0	1088.8	1093.6
20°	1146.1	1157.1	1150.5	1152.7	1148.8	1150.9	1153.1	1162.8	1151.8	1155.3	1154.0
22.5°	1238.0	1251.1	1244.1	1252.4	1249.8	1248.1	1247.6	1264.7	1247.6	1248.9	1236.2
25°	1371.9	1387.6	1375.4	1386.7	1386.7	1392.4	1399.0	1420.8	1392.4	1384.1	1351.3
27.5°	1569.6	1585.3	1561.3	1568.3	1566.1	1580.1	1573.1	1627.3	1596.7	1583.1	1517.1
30°	1807.6	1835.6	1790.1	1788.3	1786.1	1808.4	1818.5	1854.4	1823.3	1809.7	1730.1
32.5°	2064.8	2094.1	2039.8	2024.1	2015.8	2029.3	2021.0	2049.9	2028.5	2007.5	1909.0
35°	2336.9	2365.7	2314.1	2283.5	2250.3	2221.8	2192.1	2199.5	2179.4	2147.5	2045.5
37.5°	2594.1	2647.0	2592.3	2559.5	2498.3	2442.7	2359.6	2325.1	2306.3	2276.9	2174.1
40°	2856.1	2886.3	2844.8	2816.8	2750.3	2663.2	2530.2	2457.2	2431.8	2403.4	2316.3
42.5°	3049.0	3077.9	3055.6	3036.4	2984.3	2883.3	2711.3	2619.9	2583.2	2551.2	2477.3
45°	3202.2	3223.6	3209.6	3216.6	3194.3	3096.3	2899.0	2794.5	2756.4	2717.5	2659.3
47.5°	3263.8	3286.6	3308.9	3350.5	3388.5	3316.3	3100.7	2983.4	2943.2	2903.4	2846.1
50°	3256.8	3280.0	3344.8	3433.1	3551.2	3527.2	3313.3	3184.7	3147.5	3102.0	3049.0
52.5°	3200.8	3227.1	3310.2	3457.2	3645.3	3685.1	3529.8	3392.4	3357.5	3303.2	3250.3
55°	3053.9	3069.6	3194.3	3402.5	3667.6	3795.3	3742.0	3613.8	3578.8	3503.1	3445.4
57.5°	2781.3	2804.1	2985.6	3255.1	3611.6	3870.1	3928.3	3846.5	3812.8	3703.9	3643.5
60°	2425.7	2462.0	2669.8	3007.5	3469.0	3869.7	4097.6	4075.3	4047.3	3901.6	3838.7
62.5°	2023.2	2065.2	2265.1	2657.5	3219.7	3759.9	4203.5	4266.9	4252.5	4084.1	4003.6
65°	1553.8	1582.7	1781.7	2204.8	2831.6	3524.1	4215.7	4397.7	4400.3	4222.7	4089.7
67.5°	1034.6	1117.7	1290.5	1654.4	2311.9	3138.7	4108.1	4419.2	4444.5	4270.4	4046.4
70°	504.8	614.2	783.5	1075.3	1654.4	2547.7	3826.8	4243.3	4299.7	4131.3	3788.3
72.5°	209.5	245.0	337.3	530.6	949.7	1719.2	3261.7	3766.5	3871.0	3660.6	3185.1
75°	141.3	153.1	192.9	272.1	432.6	847.8	2352.2	2808.4	2976.9	2764.7	2259.9
77.5°	108.9	116.4	140.4	190.3	257.2	320.7	1259.0	1692.5	1779.6	1647.4	1175.9
80°	85.7	91.4	105.0	138.7	182.4	171.5	429.1	766.9	817.2	685.5	378.0
82.5°	74.4	76.6	75.2	94.1	121.2	100.2	140.9	283.0	312.3	226.6	123.4
85°	53.8	59.9	62.6	58.2	64.3	50.7	57.7	100.2	110.2	98.4	69.6
87.5°	21.9	32.4	39.8	37.6	23.6	14.4	17.9	29.3	33.7	36.7	22.7
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°	923.5	923.5	923.5	923.5	923.5	923.5	923.5	923.5	923.5	923.5	923.5
2.5°	924.3	927.4	929.6	932.2	934.0	936.6	941.8	944.9	945.3	947.5	947.1
5°	932.6	937.0	941.8	948.8	956.7	963.3	973.3	980.3	983.0	985.1	984.7
7.5°	950.6	956.7	965.5	977.7	989.1	997.8	1010.1	1018.4	1026.7	1029.8	1030.2
10°	977.3	986.0	998.7	1015.3	1027.6	1039.0	1051.6	1058.6	1066.9	1070.4	1072.2
12.5°	1010.5	1019.7	1036.3	1059.5	1070.9	1078.8	1083.1	1081.4	1083.1	1086.2	1087.1
15°	1048.6	1058.6	1077.4	1102.4	1110.3	1103.3	1093.6	1084.9	1083.6	1084.4	1087.5
17.5°	1093.6	1101.1	1122.9	1143.9	1138.3	1109.4	1088.4	1074.4	1067.4	1065.2	1068.3
20°	1156.6	1156.6	1174.6	1187.7	1149.6	1100.6	1067.8	1045.1	1030.6	1024.5	1023.2
22.5°	1233.2	1226.2	1237.6	1228.4	1147.4	1076.1	1030.6	991.3	969.4	960.6	959.3
25°	1330.3	1322.0	1318.9	1262.1	1131.7	1037.2	963.3	915.6	896.3	891.5	892.4
27.5°	1476.8	1455.8	1416.0	1280.4	1102.8	976.0	884.5	840.3	829.4	829.8	831.2
30°	1671.9	1630.0	1532.4	1283.5	1055.6	889.3	804.0	772.5	767.3	769.5	776.9
32.5°	1852.6	1812.8	1651.4	1269.5	983.0	804.5	731.9	710.9	703.0	705.6	709.1
35°	1994.3	1983.4	1761.6	1249.8	893.7	724.9	667.1	649.2	633.9	630.4	633.0
37.5°	2128.2	2123.8	1844.3	1222.2	805.4	668.4	615.1	591.4	569.1	556.9	557.3
40°	2275.2	2270.8	1898.5	1179.8	727.0	619.4	568.3	537.2	509.6	487.3	489.5
42.5°	2440.6	2414.7	1924.4	1119.0	660.6	577.9	530.2	488.2	451.9	431.3	432.6
45°	2621.2	2563.0	1923.9	1041.6	604.6	539.8	489.5	430.0	396.3	377.1	376.2
47.5°	2812.8	2704.8	1900.3	955.8	550.3	497.8	426.5	381.0	358.7	346.9	344.3
50°	3010.6	2837.3	1860.1	857.4	494.8	450.1	387.1	356.1	339.0	328.1	324.2
52.5°	3196.5	2957.6	1811.5	745.9	438.3	403.8	369.6	345.6	327.7	315.4	310.2
55°	3369.3	3061.3	1742.8	631.7	392.4	372.7	361.3	341.2	320.7	306.2	300.5
57.5°	3522.8	3128.7	1624.3	524.5	359.6	351.3	352.6	333.8	310.2	297.9	290.0
60°	3650.5	3178.1	1448.8	425.2	332.9	330.3	339.0	319.8	292.2	278.2	272.1
62.5°	3727.1	3177.2	1233.6	348.2	310.2	311.0	321.1	302.3	274.3	261.2	257.2
65°	3720.5	3099.4	997.4	297.9	288.3	289.2	302.3	283.0	259.4	251.5	251.1
67.5°	3588.9	2909.5	765.1	265.1	264.2	268.2	283.5	269.9	250.2	249.3	250.7
70°	3232.3	2515.4	551.2	238.8	239.3	245.0	265.1	261.6	245.4	247.2	246.7
72.5°	2591.9	1917.8	370.1	211.3	211.7	220.9	247.6	255.0	240.6	263.8	267.3
75°	1726.2	1196.0	238.0	182.0	182.4	194.2	232.3	242.3	227.5	262.9	265.1
77.5°	829.4	537.6	172.4	153.1	153.1	164.0	200.8	217.0	193.8	204.3	187.2
80°	286.5	202.1	135.6	123.4	120.7	128.2	169.3	188.1	167.1	154.0	144.4
82.5°	112.9	105.0	108.9	95.8	87.1	91.9	131.7	155.3	122.9	111.1	110.7
85°	64.7	68.2	77.0	63.4	50.3	56.4	96.7	111.6	92.7	81.8	83.6
87.5°	17.5	24.1	35.4	32.8	22.7	24.1	45.9	61.7	53.4	41.1	42.4
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)