

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: P945583

Luminaire Tested: **GALN-SB1C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7134 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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

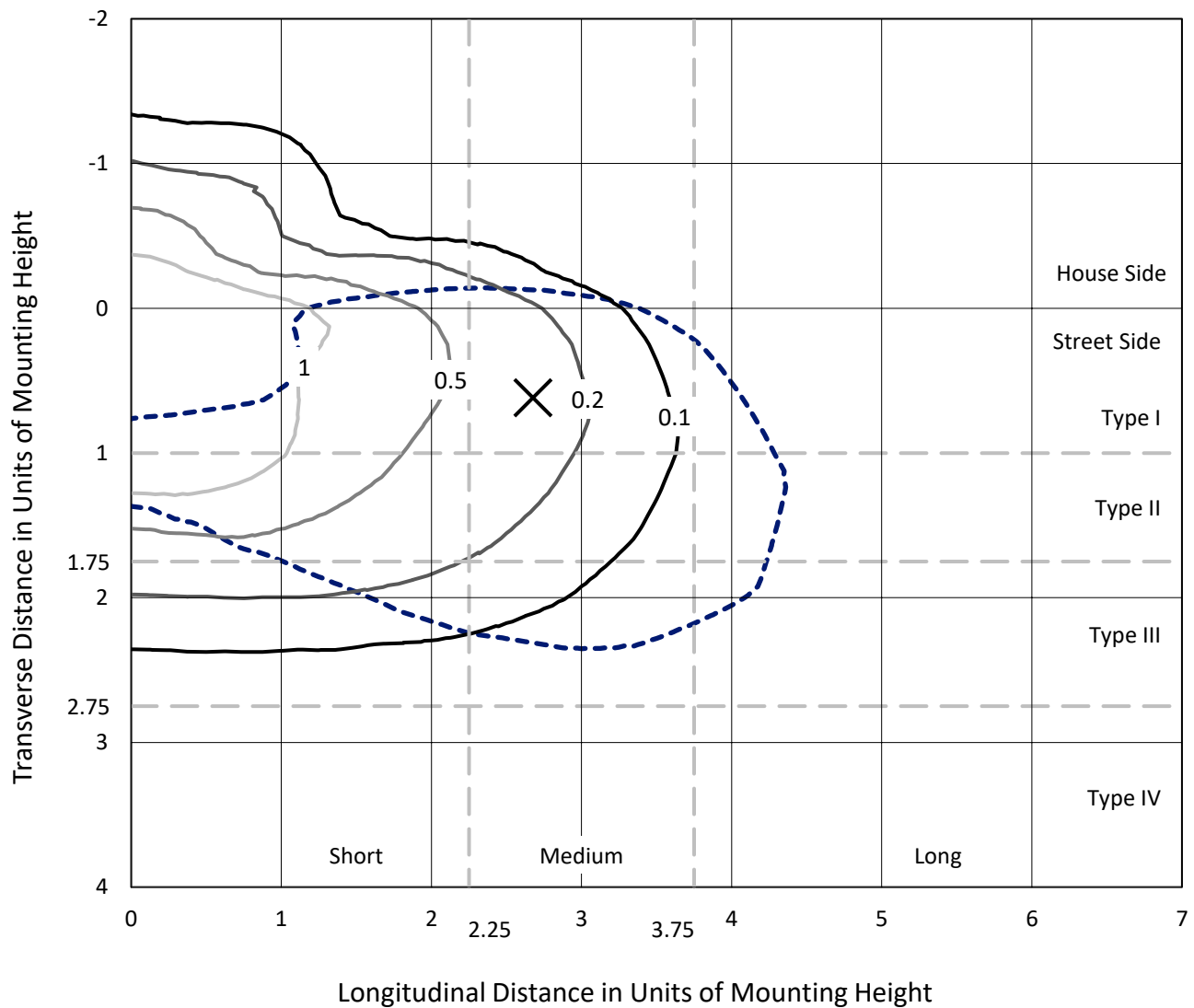


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

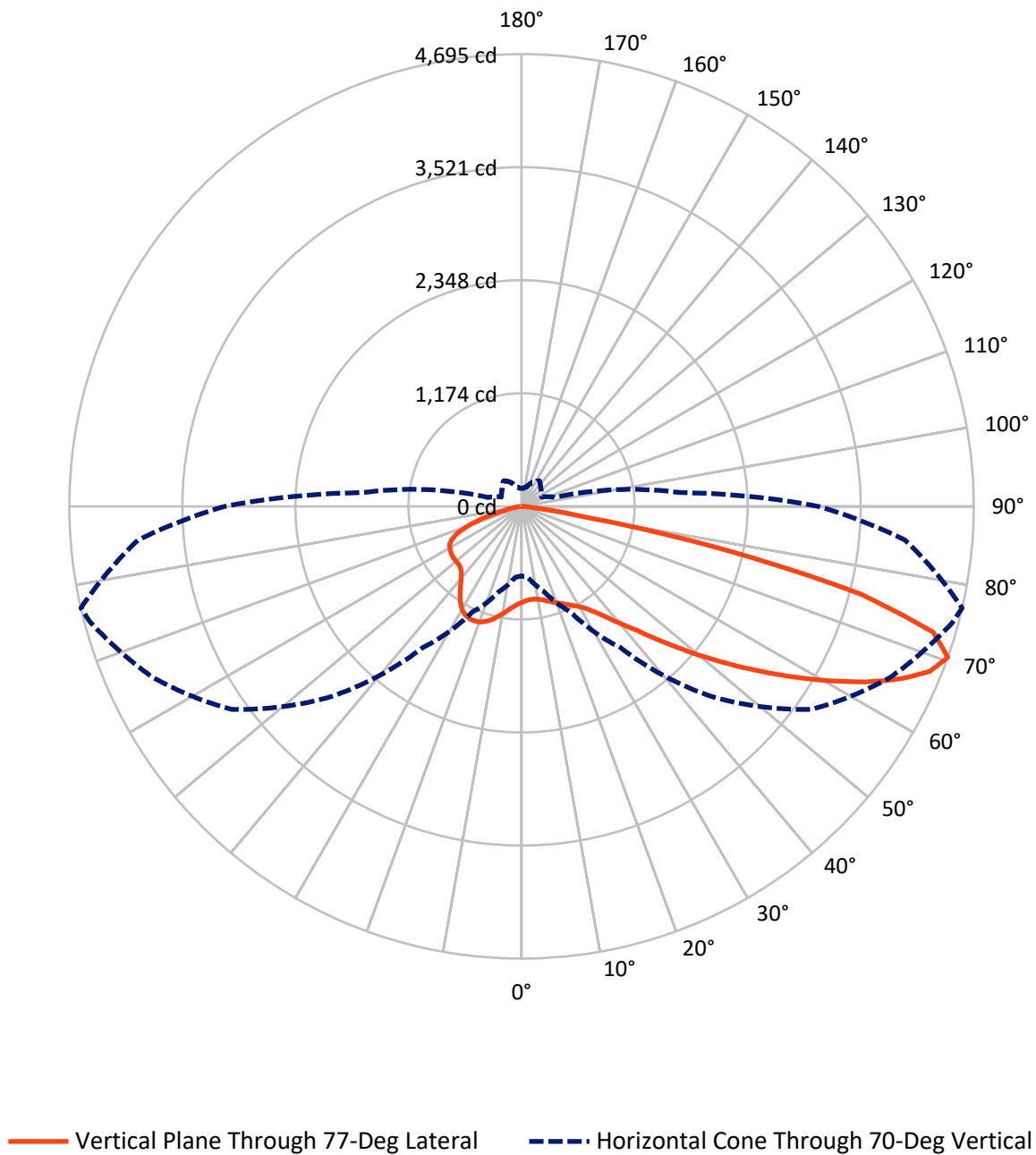


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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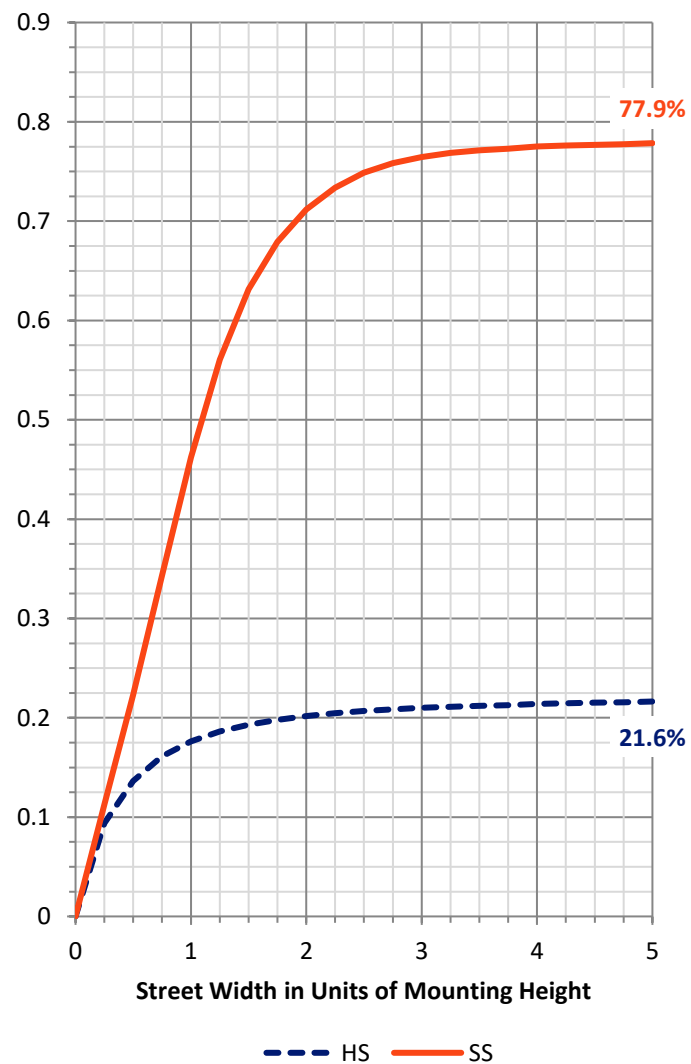
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1562.2	0.0	1562.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5571.8	0.0	5571.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	7134.0	0.0	7134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	1.3
10°-20°	274.0	3.8
20°-30°	468.5	6.6
30°-40°	753.4	10.6
40°-50°	1176.2	16.5
50°-60°	1571.2	22.0
60°-70°	1674.6	23.5
70°-80°	1030.9	14.5
80°-90°	90.3	1.3
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°	7134.0	100.0
0°-180°	7134.0	100.0

Coefficient of Utilization



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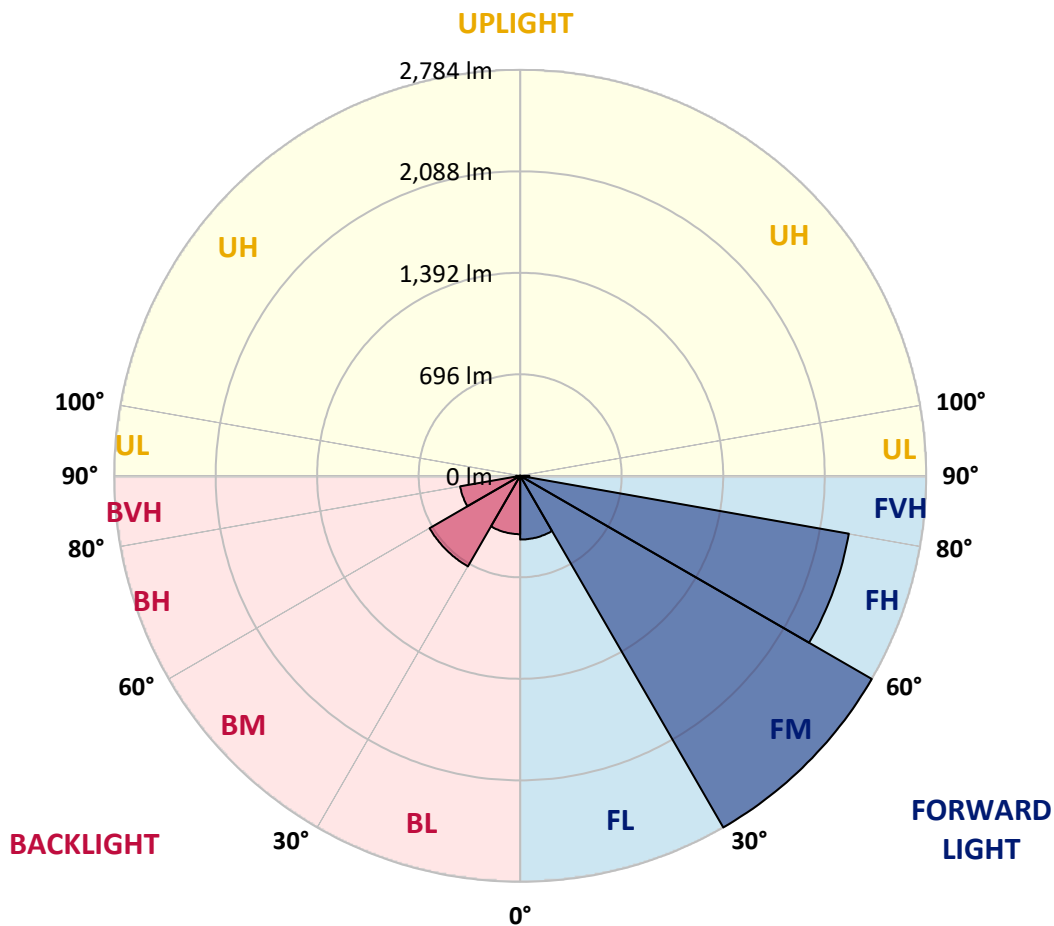
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.1	6.1			
FM	(30°-60°)	2783.5	39.0			
FH	(60°-80°)	2288.0	32.1			G2/5000
FVH	(80°-90°)	63.2	0.9			G1/100
BL	(0°-30°)	400.3	5.6	B1/500		
BM	(30°-60°)	717.3	10.1	B1/1000		
BH	(60°-80°)	417.5	5.9	B1/500		G1/500
BVH	(80°-90°)	27.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3
2.5°	917.4	917.1	921.8	923.3	932.0	938.3	950.0	962.4	978.5	980.3	990.1
5°	864.5	864.5	869.9	875.8	887.1	899.5	917.4	939.0	966.8	971.1	995.6
7.5°	819.5	822.4	827.2	838.5	851.7	869.6	897.0	927.7	964.2	971.1	1010.6
10°	783.3	786.6	792.5	801.6	821.3	846.2	882.0	921.5	970.4	981.4	1032.5
12.5°	772.0	775.3	778.6	785.5	803.8	833.0	875.8	924.4	985.4	996.4	1062.5
15°	798.3	802.3	799.8	798.0	807.5	834.1	878.7	935.0	1004.0	1019.7	1099.4
17.5°	859.0	860.4	854.6	837.4	836.0	850.2	892.6	949.6	1027.4	1044.6	1136.7
20°	956.9	954.3	942.3	908.3	888.9	886.0	916.3	971.5	1051.5	1069.8	1176.8
22.5°	1089.9	1087.0	1062.9	1009.1	966.0	937.5	950.7	1000.0	1078.6	1099.0	1215.9
25°	1255.8	1251.7	1216.3	1143.2	1076.4	1005.9	997.5	1037.6	1111.8	1130.8	1256.9
27.5°	1449.4	1446.1	1407.8	1311.3	1214.8	1099.4	1055.5	1081.8	1146.5	1168.1	1302.9
30°	1657.7	1667.2	1599.2	1495.4	1373.4	1221.4	1133.7	1136.3	1191.5	1210.8	1358.8
32.5°	1902.5	1918.9	1837.1	1705.5	1538.9	1354.0	1232.4	1212.3	1256.9	1272.9	1429.3
35°	2145.1	2163.7	2095.7	1950.3	1758.5	1510.4	1335.4	1299.6	1343.8	1361.4	1522.8
37.5°	2354.8	2379.6	2344.6	2218.1	1993.4	1699.0	1469.9	1402.3	1450.9	1472.8	1648.5
40°	2520.3	2558.3	2555.7	2476.8	2270.4	1927.7	1640.5	1529.1	1583.9	1607.6	1800.9
42.5°	2654.8	2687.6	2716.1	2712.1	2559.4	2187.4	1841.1	1693.8	1735.5	1762.9	1972.2
45°	2747.6	2782.6	2844.0	2910.1	2837.4	2465.5	2070.9	1889.3	1927.3	1968.6	2176.5
47.5°	2830.5	2870.3	2950.0	3054.8	3073.5	2744.6	2322.6	2116.9	2151.6	2194.4	2381.5
50°	2837.8	2872.1	2995.6	3144.3	3241.2	3012.8	2593.0	2372.3	2404.8	2450.5	2601.0
52.5°	2661.3	2715.4	2931.0	3141.8	3318.3	3237.1	2861.5	2637.9	2674.5	2729.3	2828.3
55°	2065.8	2145.1	2741.3	3043.9	3290.9	3382.2	3116.9	2920.4	2967.1	3024.5	3057.0
57.5°	1779.3	1814.0	2176.1	2865.6	3165.9	3419.8	3332.5	3205.7	3281.0	3343.8	3298.9
60°	1599.2	1628.1	1842.2	2588.3	3001.5	3360.3	3499.1	3471.7	3601.8	3676.7	3546.2
62.5°	1406.3	1433.7	1628.4	2161.1	2791.0	3261.3	3604.3	3717.2	3930.6	4012.5	3779.4
65°	1214.8	1238.2	1424.9	1815.9	2523.6	3162.2	3658.8	3929.5	4235.0	4319.7	3973.0
67.5°	1001.5	1020.8	1197.3	1532.0	2198.4	3026.7	3685.8	4096.5	4499.9	4572.6	4068.7
70°	722.7	737.7	920.0	1211.6	1790.3	2793.6	3674.9	4214.9	4637.2	4695.3	3996.4
72.5°	341.6	355.1	569.2	786.6	1264.5	2339.8	3453.1	4121.0	4497.7	4468.8	3553.6
75°	182.3	194.0	327.0	431.5	667.9	1604.0	2825.7	3549.9	3776.8	3636.5	2626.3
77.5°	123.5	132.6	202.4	259.0	305.1	761.4	1816.2	2457.8	2364.7	2133.0	1315.3
80°	97.9	107.4	165.9	175.4	147.6	275.1	750.5	1137.8	817.3	653.6	374.1
82.5°	75.3	85.9	139.6	127.1	80.4	112.9	218.5	359.9	209.4	159.3	90.6
85°	46.0	57.4	109.6	81.1	45.3	51.5	74.2	100.1	63.9	53.3	32.5
87.5°	23.4	32.9	55.5	29.6	20.5	12.1	19.7	19.7	16.8	14.6	8.4
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°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3
2.5°	998.9	1006.2	1018.6	1030.3	1039.5	1048.2	1057.0	1061.8	1063.2	1069.1	1072.4
5°	1010.6	1024.1	1048.2	1070.9	1085.1	1093.9	1100.1	1103.8	1104.5	1106.3	1109.3
7.5°	1032.2	1053.7	1087.3	1110.0	1120.6	1119.8	1117.3	1108.2	1104.5	1101.2	1101.9
10°	1062.5	1091.0	1132.3	1148.0	1141.4	1123.9	1101.2	1074.5	1062.1	1050.1	1046.4
12.5°	1100.1	1136.3	1176.8	1176.1	1143.6	1098.7	1046.0	1005.1	979.2	960.5	956.2
15°	1145.8	1187.4	1218.5	1193.7	1122.4	1041.7	964.6	911.2	887.8	867.4	865.2
17.5°	1192.9	1237.5	1251.7	1188.2	1069.1	957.3	869.9	827.9	804.9	793.9	797.2
20°	1239.0	1283.2	1271.5	1156.8	988.0	861.5	783.7	760.7	755.9	758.5	757.4
22.5°	1287.6	1327.0	1275.5	1096.1	884.6	763.6	720.9	721.6	732.2	739.9	741.7
25°	1337.2	1363.9	1264.9	1008.4	773.5	691.6	681.0	692.7	713.6	728.5	732.6
27.5°	1385.1	1396.8	1241.9	899.9	678.1	640.1	641.9	666.1	697.5	718.3	723.4
30°	1439.2	1426.0	1197.7	777.9	612.0	595.9	611.3	639.4	670.8	689.4	693.8
32.5°	1500.2	1451.2	1127.5	665.0	565.2	560.5	585.7	604.0	617.8	623.3	626.2
35°	1576.2	1486.7	1037.6	585.7	523.2	534.5	558.6	549.5	544.0	541.1	544.0
37.5°	1674.8	1534.5	932.4	534.2	489.2	515.9	525.8	497.3	475.7	465.1	467.7
40°	1793.6	1604.7	831.2	494.3	467.7	499.8	482.6	448.3	420.9	405.9	407.0
42.5°	1925.5	1678.1	746.1	464.4	455.6	486.7	450.9	409.9	365.7	361.0	365.7
45°	2064.0	1753.8	688.0	441.4	449.8	475.3	432.6	366.5	335.0	354.4	364.6
47.5°	2202.4	1823.2	652.9	424.2	446.8	462.6	416.5	342.3	320.1	348.2	361.3
50°	2356.6	1885.3	637.2	411.8	443.6	457.4	392.4	336.1	304.4	323.0	336.9
52.5°	2509.7	1933.5	625.5	399.3	438.8	453.4	380.7	328.8	285.4	286.4	294.1
55°	2662.4	1964.9	612.7	382.9	428.2	444.7	379.6	320.8	271.1	266.0	269.6
57.5°	2825.4	1982.8	597.0	364.6	409.9	422.4	378.5	314.6	266.7	258.3	259.4
60°	2991.3	2009.1	576.5	342.3	385.5	395.7	376.0	312.4	264.2	249.9	251.0
62.5°	3140.0	2018.3	552.1	321.2	354.0	369.4	370.5	310.6	257.2	232.7	232.7
65°	3237.5	1978.8	509.3	297.0	320.1	342.3	359.9	304.4	244.8	220.3	220.3
67.5°	3233.5	1866.3	442.5	266.0	287.2	312.4	344.5	293.8	229.8	205.0	206.1
70°	3083.0	1644.1	357.7	229.8	251.0	280.2	324.8	278.0	211.9	188.2	190.4
72.5°	2644.2	1286.8	259.8	187.4	209.0	247.0	299.2	259.0	193.6	173.2	172.1
75°	1888.9	814.4	176.1	144.0	162.6	209.4	267.4	236.8	176.8	173.9	164.0
77.5°	964.9	389.1	116.6	105.2	113.3	165.1	224.7	211.5	179.4	143.6	127.9
80°	313.8	143.6	73.4	71.6	75.3	110.0	173.9	173.5	135.9	97.6	86.2
82.5°	100.1	61.7	47.9	46.0	44.2	69.1	121.3	137.4	91.7	61.7	61.4
85°	39.8	36.9	28.1	25.9	18.6	32.5	63.6	91.3	68.3	44.6	45.7
87.5°	14.6	14.6	7.7	5.5	4.0	11.0	17.2	27.4	39.1	23.0	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

(END OF REPORT)