

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: P945606

Luminaire Tested: **GALN-SB1C-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-730-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7477 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
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

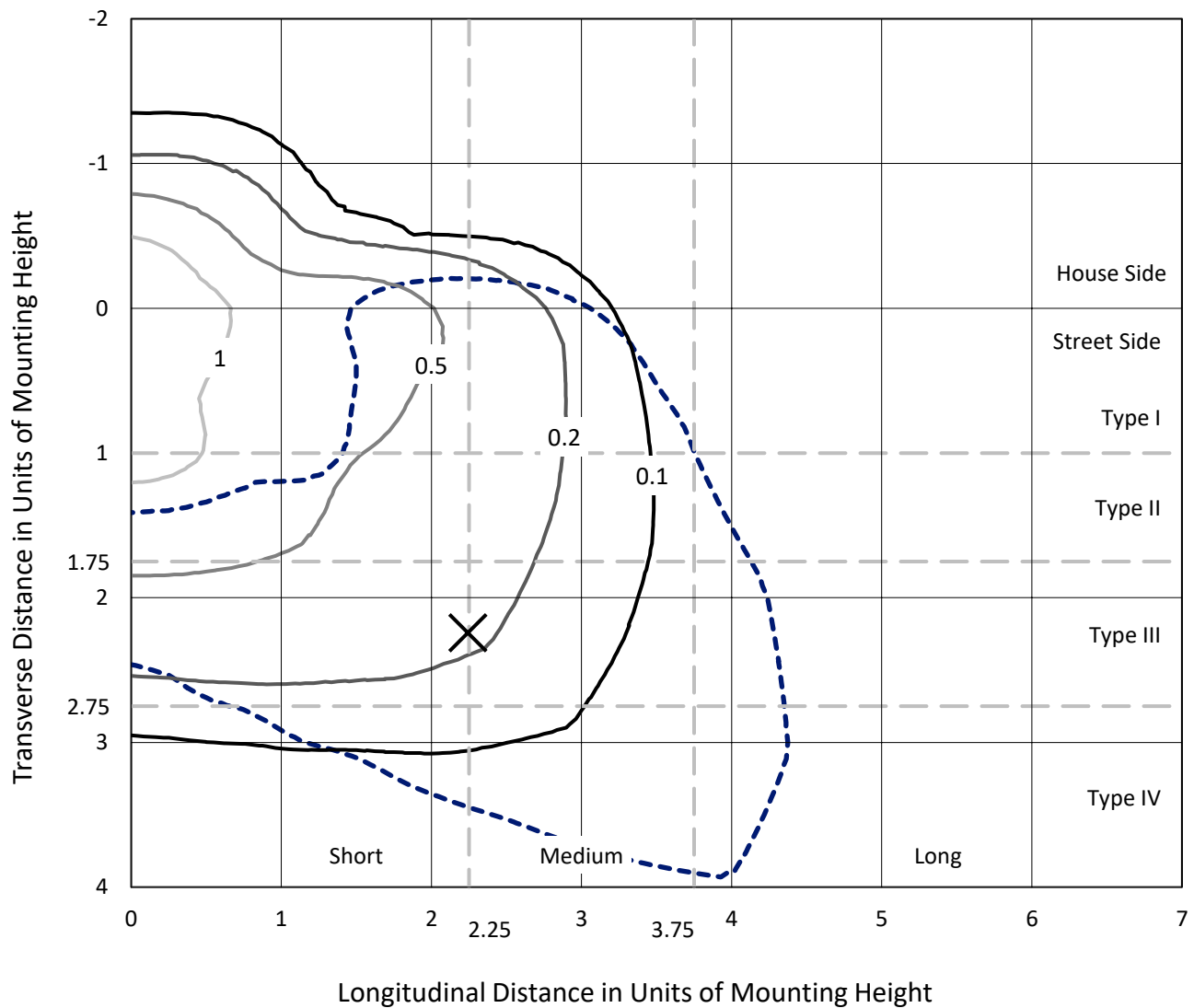


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

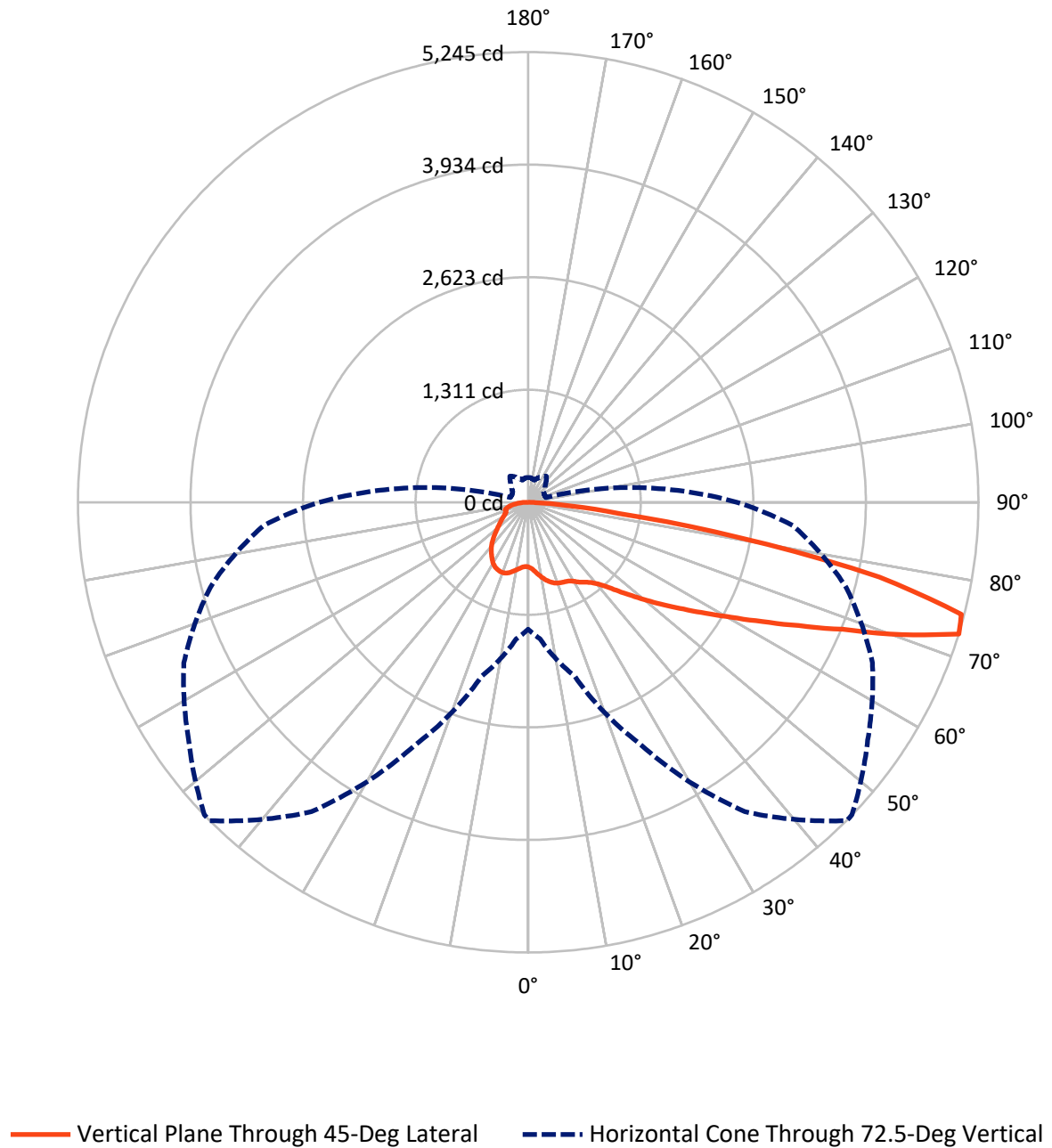


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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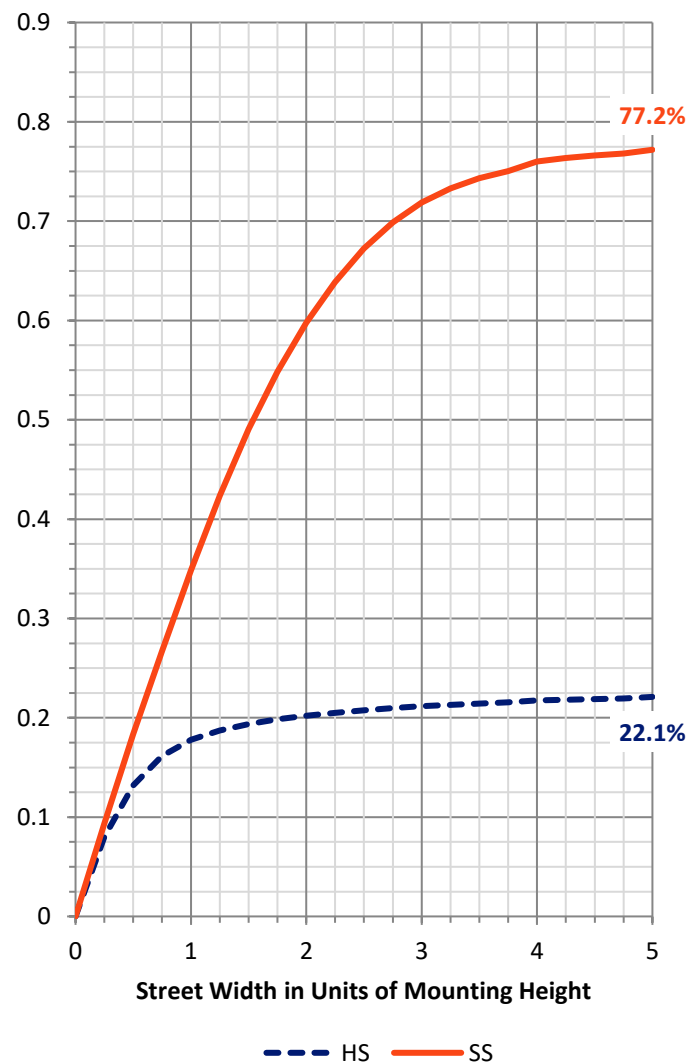
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1690.3	0.0	1690.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5786.7	0.0	5786.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	7477.0	0.0	7477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.0
10°-20°	256.0	3.4
20°-30°	445.3	6.0
30°-40°	638.3	8.5
40°-50°	898.8	12.0
50°-60°	1376.7	18.4
60°-70°	1994.3	26.7
70°-80°	1592.6	21.3
80°-90°	198.4	2.7
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°	7477.0	100.0
0°-180°	7477.0	100.0

Coefficient of Utilization



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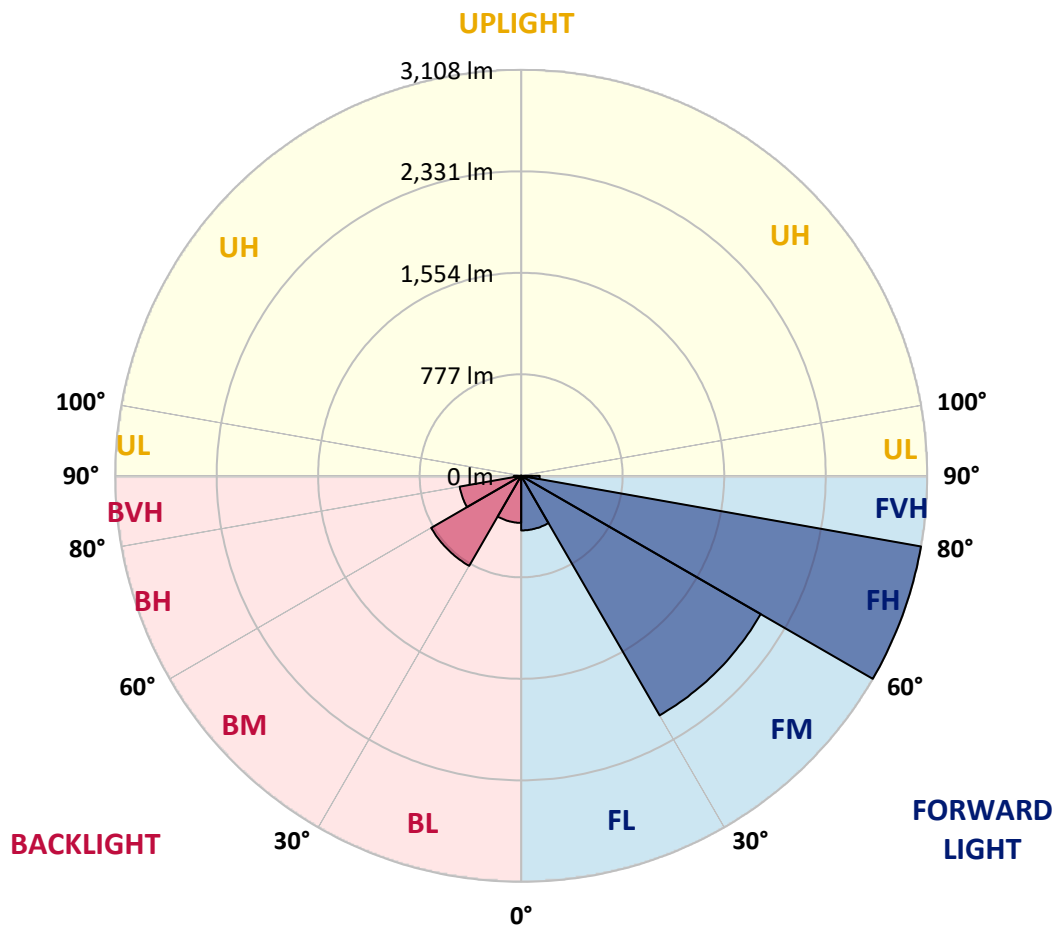
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.1	5.6			
FM	(30°-60°)	2117.9	28.3			
FH	(60°-80°)	3108.4	41.6			G2/5000
FVH	(80°-90°)	142.3	1.9			G2/225
BL	(0°-30°)	359.9	4.8	B1/500		
BM	(30°-60°)	795.9	10.6	B1/1000		
BH	(60°-80°)	478.5	6.4	B1/500		G1/500
BVH	(80°-90°)	56.1	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3
2.5°	783.8	788.9	784.2	779.9	777.9	772.8	772.4	769.3	767.3	761.8	760.2
5°	838.6	845.3	837.4	828.7	820.8	808.2	806.7	797.6	787.4	775.6	768.9
7.5°	900.4	906.3	897.3	884.3	870.5	849.6	849.2	832.7	816.5	796.4	785.0
10°	954.4	962.3	950.0	932.3	915.0	891.4	888.6	869.7	849.2	823.2	805.9
12.5°	1002.0	1007.5	995.7	974.1	954.0	930.3	926.8	905.9	883.1	853.5	831.5
15°	1039.8	1046.9	1031.2	1007.9	986.7	963.4	960.3	941.4	918.5	887.4	859.1
17.5°	1064.7	1070.6	1054.4	1028.4	1007.9	988.6	986.3	970.5	950.4	918.9	888.6
20°	1074.1	1080.4	1063.5	1037.1	1018.2	1003.2	1002.0	990.6	976.8	948.1	917.4
22.5°	1083.6	1089.5	1067.4	1039.8	1023.3	1013.9	1013.5	1006.0	1000.5	976.8	946.9
25°	1121.8	1123.4	1093.8	1054.0	1030.4	1022.1	1021.7	1021.3	1023.7	1005.2	978.8
27.5°	1154.9	1154.5	1129.3	1091.8	1055.2	1037.9	1037.5	1041.4	1048.9	1033.5	1011.9
30°	1203.3	1199.0	1169.0	1130.0	1096.6	1069.8	1067.4	1063.9	1069.8	1057.6	1045.0
32.5°	1306.1	1292.3	1243.9	1174.6	1130.8	1110.4	1107.2	1085.1	1087.5	1080.0	1073.7
35°	1453.4	1435.3	1370.7	1258.8	1173.4	1144.2	1142.7	1114.7	1110.0	1103.3	1105.6
37.5°	1628.7	1606.3	1531.0	1380.9	1246.6	1183.6	1181.3	1156.0	1136.7	1129.7	1143.0
40°	1804.8	1776.4	1714.2	1529.8	1354.6	1249.4	1241.9	1203.7	1181.6	1169.8	1198.2
42.5°	1975.7	1952.1	1898.9	1696.8	1487.7	1345.5	1329.0	1263.6	1247.0	1236.0	1287.2
45°	2127.0	2105.7	2066.7	1875.3	1643.7	1476.3	1460.1	1353.4	1348.3	1348.3	1422.3
47.5°	2249.9	2245.1	2203.8	2057.2	1827.6	1625.2	1597.2	1478.2	1492.0	1513.3	1614.1
50°	2386.1	2373.1	2329.0	2236.5	2043.9	1795.7	1772.9	1631.5	1683.1	1741.4	1891.4
52.5°	2511.4	2518.5	2469.2	2423.2	2288.1	1986.0	1945.8	1812.3	1923.7	2020.2	2216.4
55°	2640.2	2640.6	2626.8	2620.5	2544.1	2196.3	2152.2	2029.7	2206.9	2326.7	2595.3
57.5°	2761.1	2761.9	2782.4	2837.9	2841.1	2438.9	2388.9	2296.7	2521.6	2643.7	2986.0
60°	2869.0	2874.5	2930.5	3060.5	3102.2	2717.0	2669.7	2612.2	2847.0	2969.9	3396.8
62.5°	2905.3	2925.4	3049.8	3234.6	3360.2	3058.1	3011.6	2977.4	3188.9	3303.1	3740.3
65°	2843.8	2889.9	3130.6	3378.3	3625.7	3463.4	3417.3	3379.9	3544.1	3651.7	4022.3
67.5°	2693.0	2752.4	3125.8	3529.2	3947.9	3951.0	3908.1	3820.3	3925.0	3966.4	4114.1
70°	2295.5	2384.6	2850.5	3585.5	4317.7	4617.9	4576.5	4350.4	4305.1	4105.0	3855.7
72.5°	1479.0	1598.8	2099.0	3121.9	4400.1	5245.3	5243.0	4829.0	4425.3	3835.6	3092.4
75°	539.6	612.9	975.3	1959.6	3693.4	5213.4	5228.8	4747.1	4039.7	2962.8	1926.5
77.5°	196.5	215.1	318.3	753.1	2271.5	4183.0	4214.9	3795.1	2875.3	1486.9	763.3
80°	103.2	113.4	163.1	292.3	973.3	2484.2	2534.2	2255.4	1351.4	447.8	228.8
82.5°	57.1	61.8	91.4	158.7	438.4	1062.3	1092.2	891.0	475.4	189.9	94.5
85°	30.7	32.7	42.9	86.7	214.3	368.3	376.6	266.3	189.5	111.5	45.7
87.5°	9.1	11.0	14.2	27.6	83.9	82.7	84.7	52.8	74.8	56.3	15.0
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°	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3	754.3
2.5°	757.8	756.6	752.3	750.3	748.0	747.6	749.6	750.0	750.3	750.7	752.3
5°	764.9	761.0	757.0	754.7	755.5	755.9	759.8	762.6	764.5	766.1	766.9
7.5°	778.7	775.6	768.9	768.5	769.6	773.2	778.3	784.6	788.2	790.9	791.7
10°	799.2	793.3	785.4	786.6	788.9	794.1	804.7	809.8	815.7	820.8	819.7
12.5°	820.1	814.9	805.9	806.7	810.6	819.7	829.9	836.2	840.2	844.1	845.7
15°	847.2	838.2	828.3	828.3	835.4	845.3	850.0	855.1	857.5	861.8	863.4
17.5°	875.2	863.4	850.4	849.6	858.3	863.0	865.8	866.5	867.3	872.1	873.6
20°	903.2	890.2	871.7	870.1	872.1	871.3	870.9	870.1	871.3	877.2	879.5
22.5°	930.7	915.8	890.2	883.1	877.6	870.1	869.7	869.3	870.1	876.0	879.9
25°	963.0	944.9	910.7	889.4	870.9	860.6	861.8	862.2	863.0	867.7	874.0
27.5°	998.1	978.0	929.6	887.4	853.9	846.8	844.9	846.1	848.8	856.3	863.8
30°	1033.2	1009.5	946.9	879.5	832.7	822.8	816.5	819.3	827.9	835.4	843.7
32.5°	1065.1	1041.4	960.7	862.2	805.5	790.1	781.9	785.4	794.1	796.8	806.7
35°	1102.5	1075.7	966.6	834.6	775.9	752.3	741.3	736.2	740.5	737.7	746.4
37.5°	1144.2	1116.3	965.8	798.4	741.3	714.1	698.7	679.4	670.4	660.9	666.8
40°	1206.1	1165.9	956.3	754.7	698.4	673.5	646.0	613.3	592.8	574.3	575.5
42.5°	1290.4	1234.8	939.0	706.6	649.9	626.7	589.2	551.0	518.7	488.0	485.3
45°	1416.0	1325.0	917.4	655.4	597.5	574.7	534.1	491.2	454.5	415.2	410.4
47.5°	1597.2	1446.3	896.9	597.1	542.4	521.5	484.9	445.1	401.8	363.6	359.2
50°	1846.1	1620.4	878.0	540.4	488.0	472.3	443.1	402.5	358.8	328.1	326.1
52.5°	2162.8	1857.2	870.1	485.7	437.2	431.3	408.1	370.2	328.9	302.9	300.9
55°	2526.4	2140.4	870.1	433.3	392.7	394.7	378.5	343.5	307.6	284.4	282.0
57.5°	2897.4	2427.1	854.3	384.8	354.9	363.2	352.9	322.2	289.9	265.9	261.9
60°	3239.3	2667.4	790.5	340.7	321.4	334.4	327.7	301.3	261.9	241.8	238.7
62.5°	3502.0	2802.9	667.6	305.7	293.8	308.8	305.3	273.7	256.8	248.5	245.8
65°	3633.6	2780.8	510.5	274.5	270.6	293.8	286.4	285.2	271.8	262.3	259.2
67.5°	3552.8	2591.0	370.2	251.7	257.2	280.1	308.8	313.5	288.7	270.2	267.1
70°	3198.7	2247.5	275.7	230.0	240.3	280.4	352.1	328.1	283.2	261.5	258.0
72.5°	2433.4	1676.0	213.9	207.2	218.2	282.4	371.4	321.4	267.4	289.1	286.7
75°	1391.6	920.1	171.7	179.2	190.6	263.9	361.6	304.1	255.2	265.5	265.5
77.5°	530.6	353.7	141.8	151.6	153.2	230.4	345.8	302.9	243.0	237.1	216.2
80°	183.9	138.3	117.4	120.5	118.6	204.8	331.6	263.5	198.9	178.0	172.1
82.5°	75.2	68.9	93.0	89.0	84.3	159.1	267.8	215.5	162.7	143.8	142.2
85°	32.7	43.7	61.4	54.0	48.8	110.3	214.7	182.4	137.5	118.6	118.2
87.5°	6.7	16.5	26.0	24.4	25.2	73.7	152.4	129.6	97.3	72.9	57.1
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)