

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: P945920

Luminaire Tested: **GALN-SB1D-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6477 lumens
Efficiency: N/A
Efficacy: 81.4 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): 79.6
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



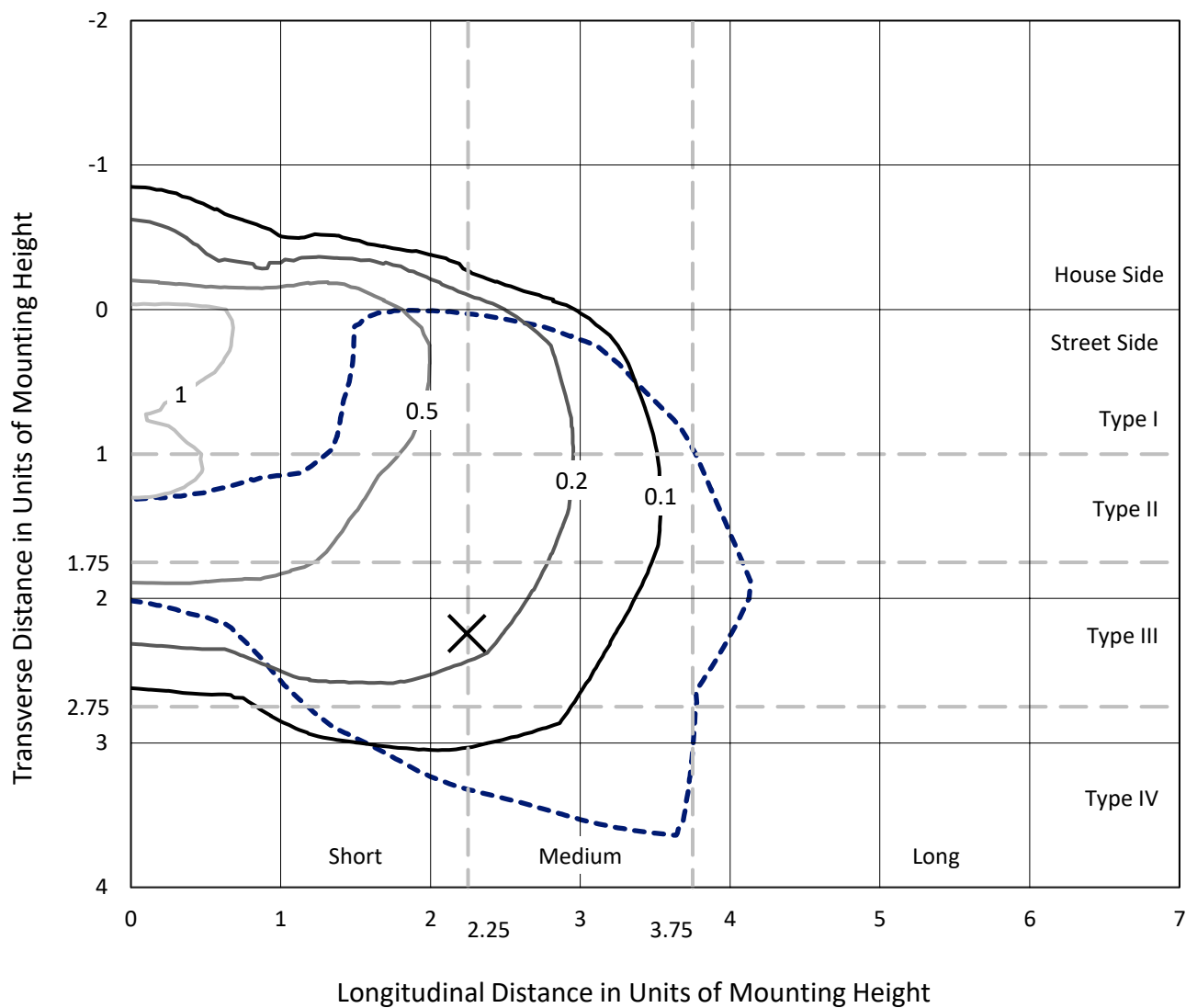
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

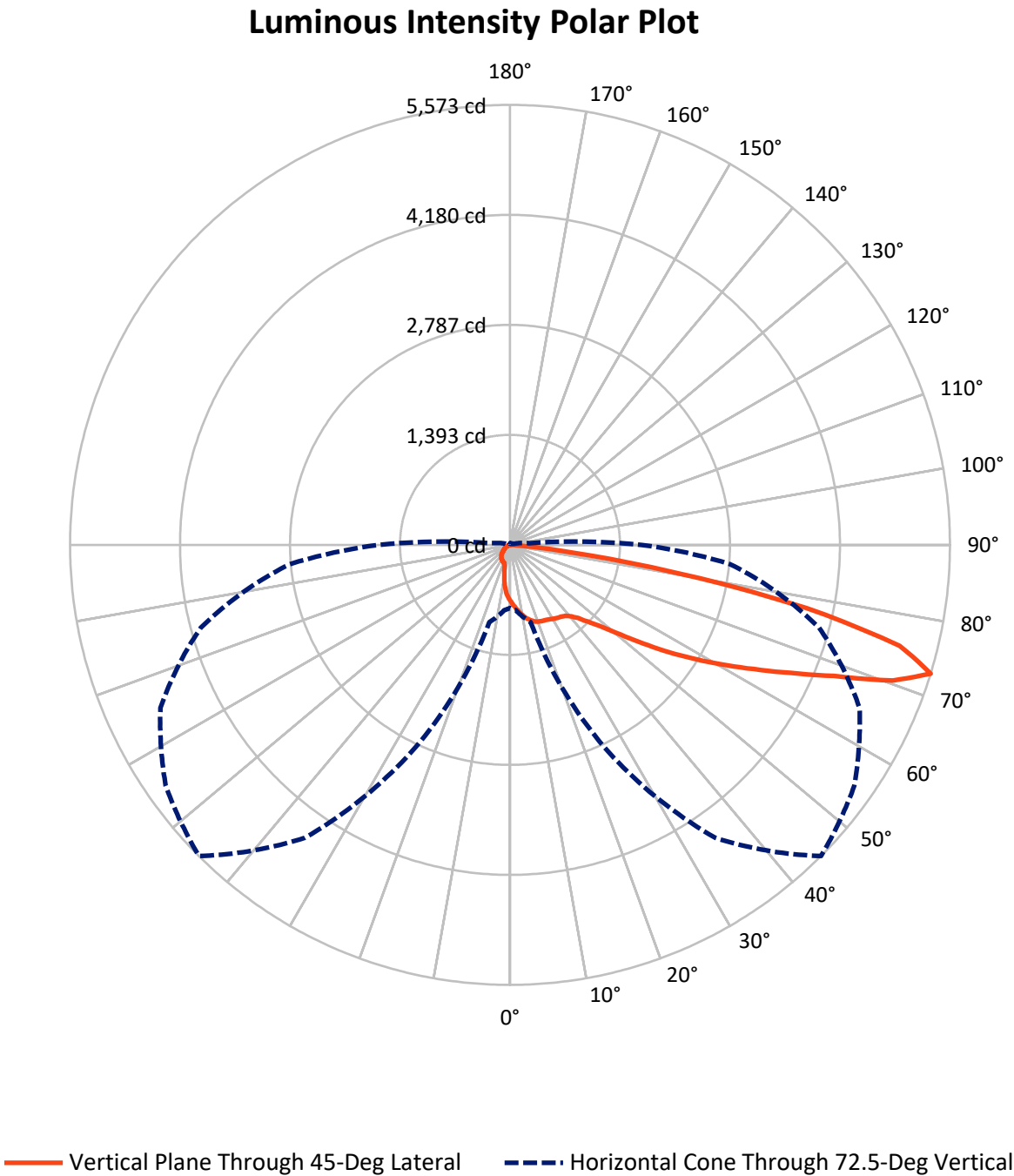
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc

Type IV - Short - N/A

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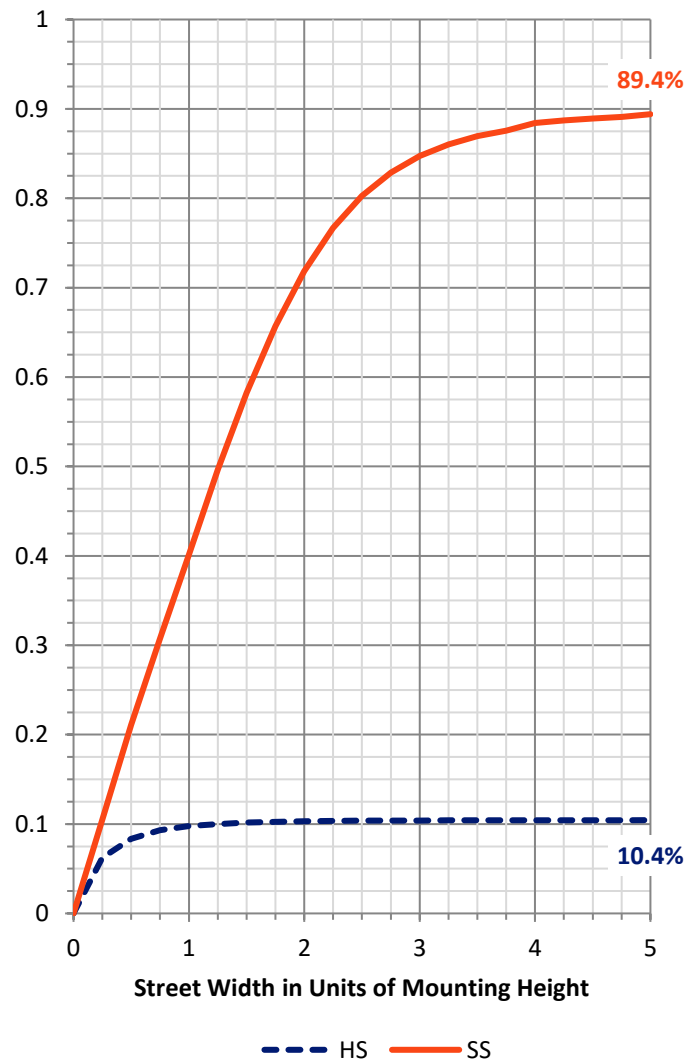
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	680.6	0.0	680.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5796.4	0.0	5796.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	6477.0	0.0	6477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.0
10°-20°	195.4	3.0
20°-30°	320.9	5.0
30°-40°	455.1	7.0
40°-50°	752.2	11.6
50°-60°	1351.2	20.9
60°-70°	1876.2	29.0
70°-80°	1360.9	21.0
80°-90°	98.4	1.5
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°	6477.0	100.0
0°-180°	6477.0	100.0

Coefficient of Utilization



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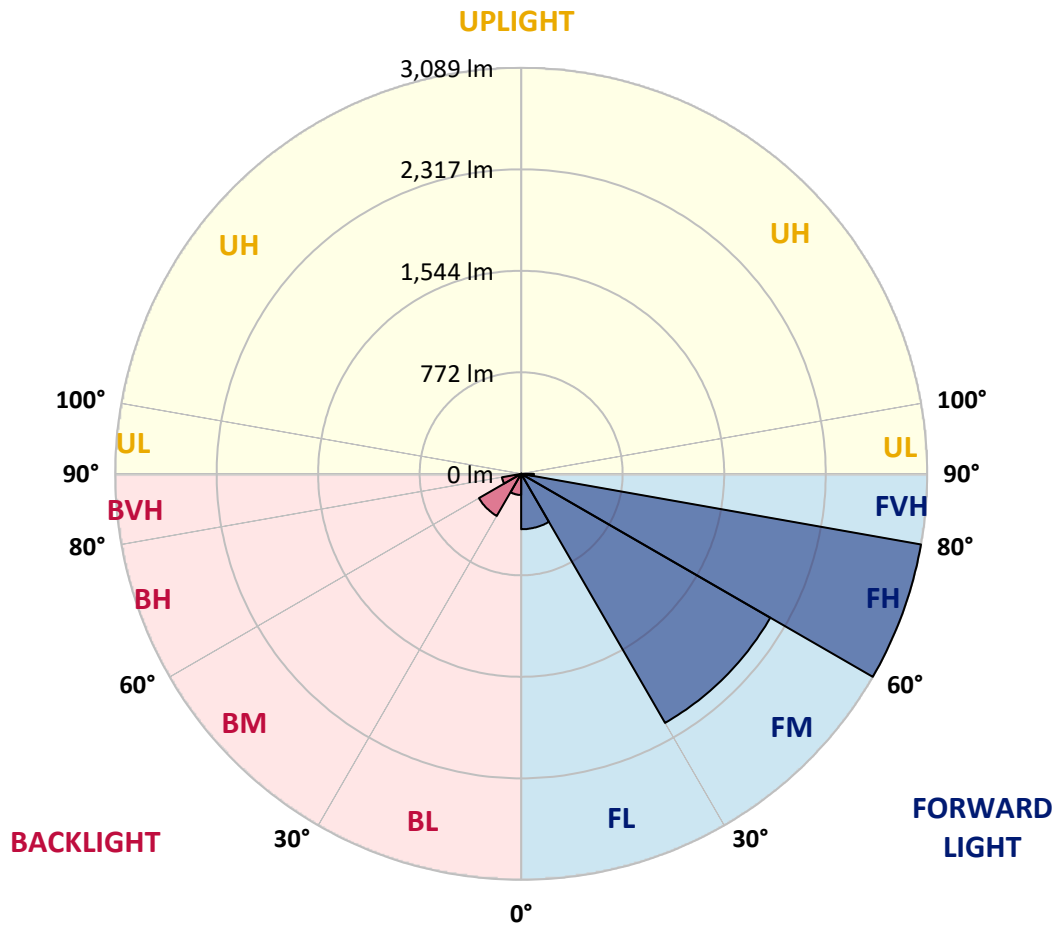
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.9	6.5			
FM	(30°-60°)	2188.3	33.8			
FH	(60°-80°)	3088.7	47.7			G2/5000
FVH	(80°-90°)	97.6	1.5			G1/100
BL	(0°-30°)	161.2	2.5	B1/500		
BM	(30°-60°)	370.1	5.7	B1/1000		
BH	(60°-80°)	148.4	2.3	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
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°	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6
2.5°	775.0	776.3	775.4	770.1	761.3	756.4	753.8	744.9	739.2	729.0	718.4
5°	846.2	851.5	848.4	837.8	821.0	809.0	805.5	787.4	771.0	752.0	729.9
7.5°	921.8	924.4	918.7	905.0	882.4	862.1	859.0	833.8	807.7	778.5	748.5
10°	987.2	990.3	981.5	961.6	935.9	910.7	906.3	878.5	847.5	811.7	773.2
12.5°	1042.0	1045.1	1033.6	1009.8	981.5	955.4	951.0	921.8	887.7	847.9	800.2
15°	1083.6	1089.3	1073.9	1048.2	1017.7	991.6	989.4	960.7	927.5	883.3	832.5
17.5°	1107.9	1113.6	1099.1	1068.1	1042.0	1019.9	1017.3	993.4	962.4	920.0	863.9
20°	1111.9	1117.2	1101.7	1074.7	1053.1	1035.4	1034.1	1016.8	994.3	953.6	897.9
22.5°	1099.9	1106.6	1092.4	1070.8	1055.7	1046.4	1044.7	1035.0	1022.1	987.6	929.7
25°	1087.6	1092.9	1082.3	1063.2	1055.3	1054.4	1055.7	1054.0	1051.3	1022.1	966.9
27.5°	1086.7	1092.4	1080.5	1062.4	1057.9	1067.2	1068.6	1077.0	1079.2	1053.5	1002.7
30°	1094.2	1098.2	1086.7	1067.7	1065.5	1086.7	1087.1	1102.2	1105.7	1080.0	1038.0
32.5°	1110.6	1115.0	1103.5	1075.6	1072.5	1102.2	1103.5	1123.4	1129.1	1108.3	1075.2
35°	1149.0	1154.3	1141.1	1097.7	1086.7	1116.7	1120.7	1144.2	1155.6	1138.4	1113.6
37.5°	1245.0	1229.5	1211.4	1142.4	1119.0	1139.7	1146.4	1173.8	1194.1	1174.2	1159.6
40°	1483.2	1434.6	1378.0	1218.4	1175.5	1188.8	1194.1	1221.5	1249.4	1229.9	1222.8
42.5°	1840.9	1783.4	1692.4	1393.5	1260.9	1267.5	1271.5	1295.4	1334.7	1319.2	1321.0
45°	2159.7	2138.9	2046.0	1692.4	1420.5	1387.7	1392.6	1405.0	1462.9	1457.2	1468.7
47.5°	2404.6	2392.6	2321.0	2035.4	1690.1	1535.0	1548.7	1554.4	1638.0	1658.3	1689.3
50°	2592.9	2588.5	2524.4	2340.5	2042.5	1752.0	1756.9	1744.5	1869.6	1920.0	1978.8
52.5°	2770.6	2785.7	2738.4	2623.9	2418.7	2036.3	2035.4	1977.1	2145.9	2222.0	2322.3
55°	2931.1	2936.4	2941.3	2913.0	2797.2	2359.9	2351.5	2256.0	2466.5	2545.2	2653.9
57.5°	3081.9	3084.1	3127.4	3185.3	3191.1	2707.4	2691.9	2577.4	2816.6	2872.8	2939.5
60°	3183.1	3193.3	3284.8	3445.7	3516.0	3066.0	3057.6	2940.8	3172.9	3199.0	3186.7
62.5°	3037.2	3099.1	3329.9	3649.1	3822.8	3463.4	3459.4	3349.8	3547.8	3526.6	3420.5
65°	2458.5	2563.3	2969.1	3786.6	4123.9	3907.3	3913.0	3796.3	3932.9	3863.9	3610.6
67.5°	1719.8	1830.3	2310.4	3797.6	4460.3	4428.5	4461.7	4278.6	4341.9	4187.1	3655.7
70°	1189.2	1246.3	1558.8	3559.8	4722.5	5146.5	5145.6	4871.0	4748.6	4334.3	3425.8
72.5°	799.8	829.4	1012.4	2824.1	4529.7	5573.1	5547.5	5323.8	4885.6	4053.6	2798.9
75°	337.3	359.0	468.6	1587.1	3583.7	5098.7	5029.3	4704.8	4341.0	3192.0	1746.3
77.5°	107.0	116.3	184.8	568.1	1974.0	3832.6	3759.2	2938.2	2909.5	1601.3	638.4
80°	50.8	59.2	103.9	228.1	776.8	2084.5	2074.3	1332.9	1251.6	432.4	128.2
82.5°	22.1	26.1	57.5	122.0	347.5	743.6	758.6	453.6	375.3	164.0	39.3
85°	7.1	9.3	26.5	56.1	146.8	184.8	182.6	107.9	151.2	89.3	13.7
87.5°	0.0	0.0	8.8	12.8	15.0	10.6	11.9	9.3	42.0	24.8	4.9
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°	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6	709.6
2.5°	713.1	706.0	693.7	682.2	672.0	661.8	655.6	646.8	645.9	645.9	648.1
5°	718.0	706.5	684.4	660.9	634.0	608.3	582.7	557.9	550.0	544.2	546.9
7.5°	732.1	714.0	679.1	634.4	583.1	527.0	487.6	445.2	428.8	420.0	421.3
10°	752.5	727.7	674.6	596.4	513.3	436.8	380.6	334.7	317.0	309.5	309.5
12.5°	775.0	744.5	666.7	549.1	436.8	345.3	290.5	269.2	266.6	266.6	266.6
15°	802.0	764.8	653.0	493.4	356.8	273.2	253.8	254.6	257.3	259.1	259.1
17.5°	829.8	786.5	631.3	431.0	286.0	245.8	246.2	247.6	249.8	251.6	251.6
20°	859.9	808.2	602.6	364.7	245.4	237.8	239.2	240.5	242.3	243.2	243.6
22.5°	892.2	828.5	568.5	299.7	231.7	231.2	231.7	233.0	235.2	235.2	236.1
25°	926.6	851.0	529.6	252.4	224.6	224.6	225.5	226.4	228.1	228.1	228.6
27.5°	962.0	871.8	488.5	227.7	218.4	218.0	218.0	219.3	220.2	220.6	221.0
30°	1000.9	896.1	447.4	222.4	213.5	211.3	210.0	210.9	211.8	212.2	213.1
32.5°	1040.7	919.6	410.7	224.6	208.7	204.7	200.3	199.4	199.4	201.2	202.5
35°	1084.9	945.2	382.4	232.1	206.0	195.0	187.9	183.9	184.4	187.0	188.3
37.5°	1138.0	976.2	361.6	238.7	204.2	183.9	172.4	167.6	164.5	167.6	166.7
40°	1207.4	1021.7	346.6	244.0	202.0	171.1	155.6	147.7	141.9	143.7	142.8
42.5°	1309.5	1093.3	340.9	244.5	197.2	156.1	138.4	127.8	119.4	119.8	118.0
45°	1452.7	1206.5	370.5	238.7	186.6	139.7	120.3	106.1	100.8	99.5	97.7
47.5°	1649.0	1371.4	439.0	226.8	171.1	123.8	102.6	90.6	86.7	84.4	83.1
50°	1912.1	1583.2	515.0	213.5	155.6	108.8	88.0	80.5	77.8	75.6	75.2
52.5°	2217.1	1798.0	577.4	200.3	140.1	95.5	78.7	74.3	72.1	70.3	69.9
55°	2497.0	1946.1	573.8	186.1	125.1	84.9	72.1	69.4	66.8	65.0	64.1
57.5°	2671.2	1966.9	473.0	170.7	107.9	76.5	65.9	64.1	61.0	58.8	58.4
60°	2751.2	1848.4	331.6	150.3	90.6	68.5	59.2	58.4	54.4	51.3	50.4
62.5°	2765.8	1628.3	221.0	125.1	75.6	61.0	52.6	51.3	46.0	40.7	38.0
65°	2706.5	1313.5	153.0	97.7	64.5	53.1	45.1	42.4	36.7	31.4	29.6
67.5°	2519.1	922.2	106.5	70.3	54.8	42.0	35.8	34.9	30.5	26.1	24.8
70°	2175.6	525.7	71.2	52.6	43.3	28.7	28.3	29.2	24.8	21.2	19.5
72.5°	1668.0	240.5	44.2	38.5	29.6	19.5	22.5	23.0	19.0	15.9	14.1
75°	981.9	103.0	27.9	24.8	15.0	12.8	16.4	16.8	12.8	10.2	8.8
77.5°	334.2	38.9	17.7	14.6	7.5	7.1	10.6	10.6	7.1	4.0	3.1
80°	76.0	14.6	8.8	5.7	3.5	3.1	3.5	3.1	1.8	0.4	0.0
82.5°	21.7	5.7	3.5	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0
85°	6.2	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)