

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: P939405

Luminaire Tested: **GALN-SB2A-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8245 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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



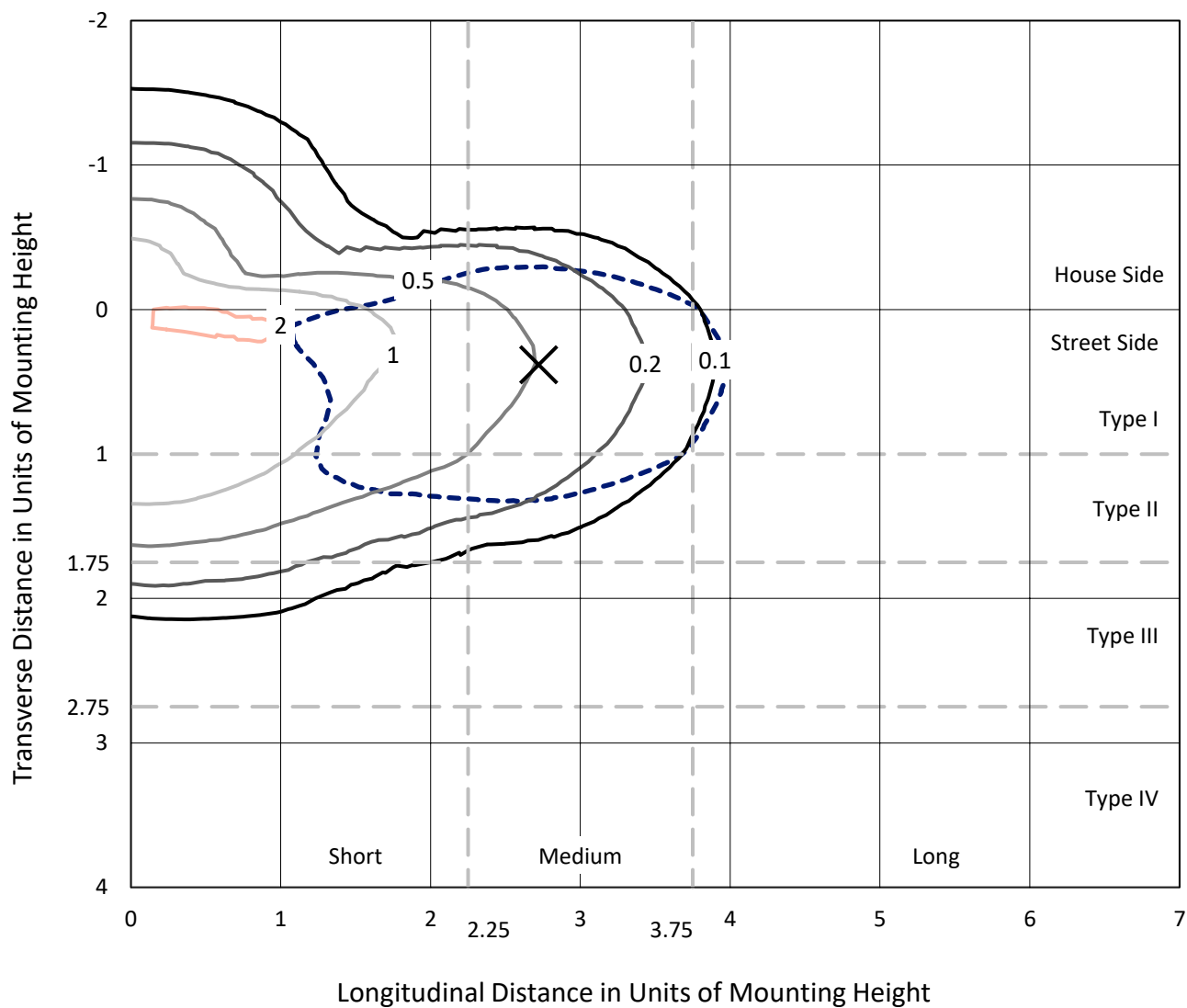
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

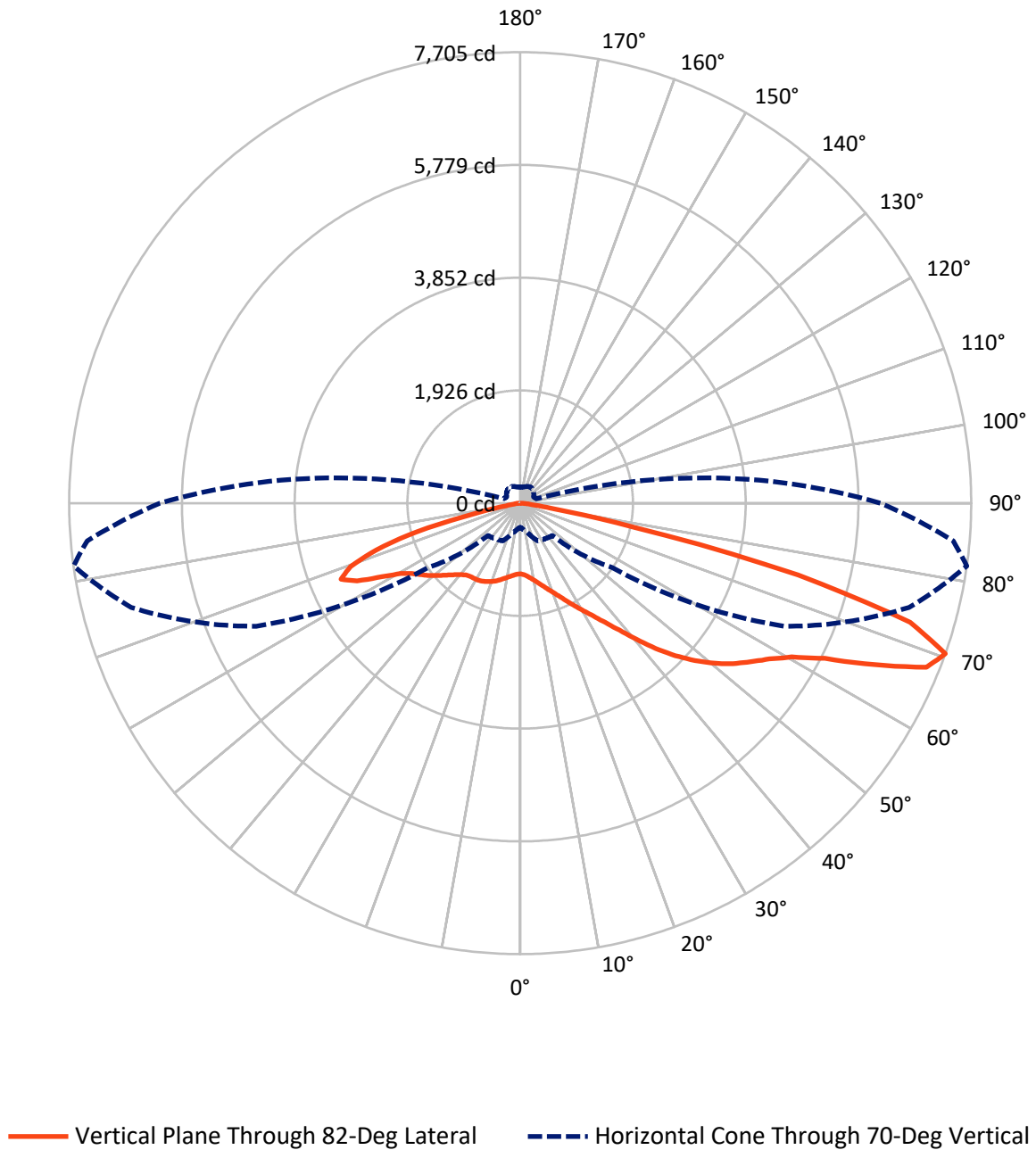


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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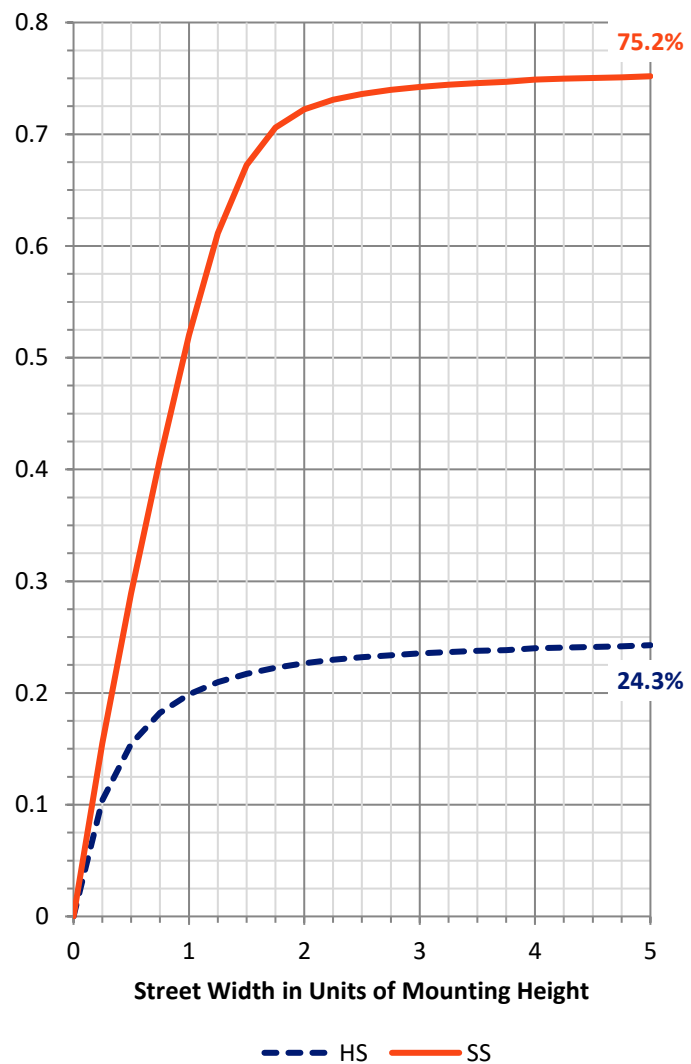
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2032.6	0.0	2032.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6212.4	0.0	6212.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	8245.0	0.0	8245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.4
10°-20°	327.9	4.0
20°-30°	548.6	6.7
30°-40°	857.0	10.4
40°-50°	1364.9	16.6
50°-60°	1899.4	23.0
60°-70°	1986.8	24.1
70°-80°	1038.4	12.6
80°-90°	107.8	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°	8245.0	100.0
0°-180°	8245.0	100.0

Coefficient of Utilization



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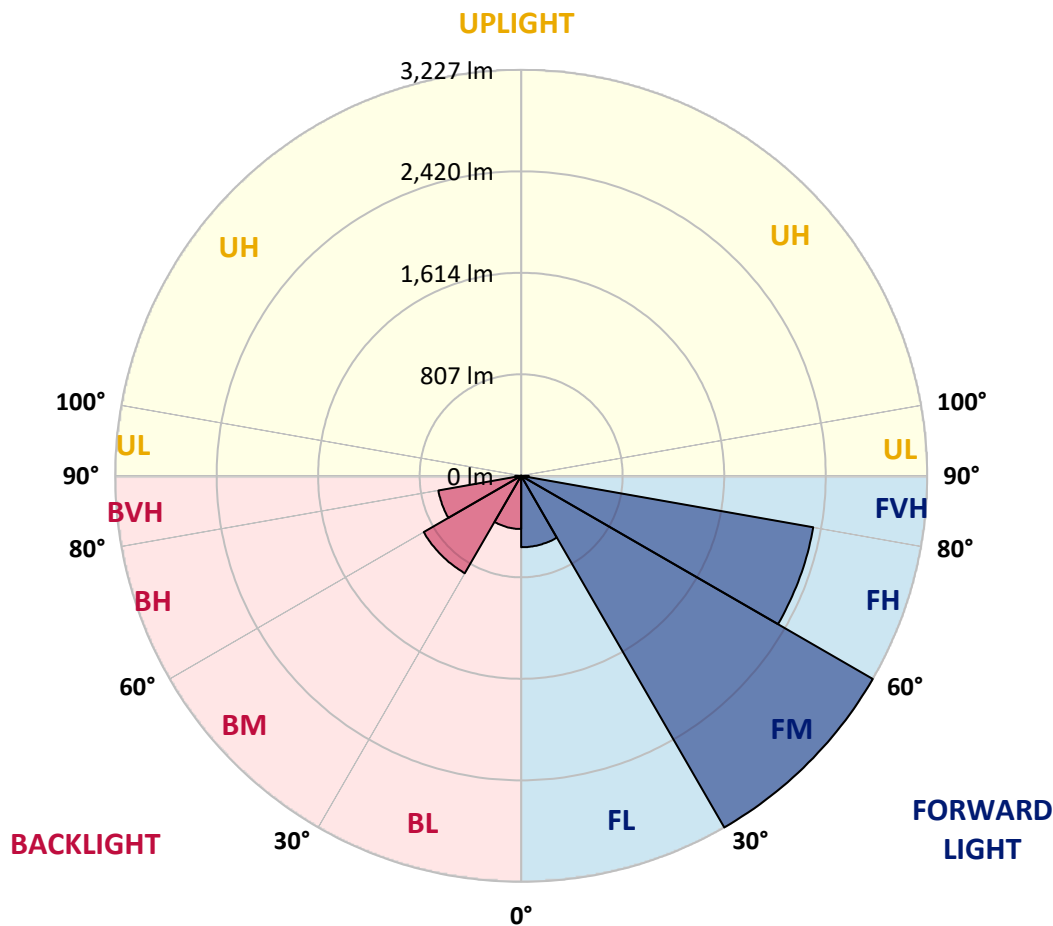
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	567.8	6.9			
FM	(30°-60°)	3227.0	39.1			
FH	(60°-80°)	2357.3	28.6			G2/5000
FVH	(80°-90°)	60.4	0.7			G1/100
BL	(0°-30°)	422.9	5.1	B1/500		
BM	(30°-60°)	894.3	10.8	B1/1000		
BH	(60°-80°)	668.0	8.1	B2/1000		G2/1000
BVH	(80°-90°)	47.5	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8
2.5°	1237.7	1244.7	1242.5	1240.3	1240.3	1237.3	1236.8	1232.4	1228.9	1223.3	1221.9
5°	1253.4	1260.9	1260.0	1261.8	1267.4	1268.8	1270.1	1267.4	1260.4	1253.4	1250.4
7.5°	1239.4	1247.8	1250.4	1260.9	1278.4	1294.1	1305.9	1310.8	1304.2	1294.1	1289.3
10°	1192.2	1201.4	1210.6	1235.5	1266.6	1303.8	1335.3	1354.1	1352.8	1343.1	1334.8
12.5°	1096.4	1106.0	1125.7	1174.3	1231.1	1296.8	1355.4	1394.8	1408.3	1401.3	1386.9
15°	1019.8	1028.1	1043.0	1092.9	1166.8	1266.6	1362.8	1439.4	1473.9	1470.0	1452.5
17.5°	1017.6	1021.1	1030.3	1053.9	1110.8	1219.3	1354.9	1483.1	1549.2	1548.8	1526.9
20°	1056.1	1057.4	1062.7	1067.5	1099.9	1183.4	1334.8	1519.4	1633.6	1633.6	1610.0
22.5°	1109.5	1108.6	1113.9	1109.5	1125.3	1180.4	1322.1	1551.4	1727.7	1734.7	1704.9
25°	1189.6	1185.2	1183.9	1173.8	1176.9	1208.8	1336.1	1587.7	1839.3	1853.7	1816.5
27.5°	1296.3	1289.3	1284.5	1261.3	1253.4	1267.4	1379.0	1631.4	1963.5	1988.5	1941.2
30°	1435.4	1422.8	1415.8	1375.5	1347.1	1349.3	1443.8	1689.6	2093.5	2133.7	2073.8
32.5°	1625.3	1605.6	1586.8	1520.8	1468.7	1451.6	1527.3	1770.1	2234.3	2298.6	2221.6
35°	1837.9	1822.2	1802.1	1700.1	1620.1	1580.7	1640.2	1882.6	2399.3	2501.2	2401.0
37.5°	2042.7	2029.1	2038.8	1901.4	1798.1	1740.8	1788.1	2033.5	2602.7	2753.2	2625.9
40°	2254.5	2244.0	2245.3	2114.0	1993.7	1929.4	1967.4	2223.0	2835.9	3052.9	2896.3
42.5°	2484.6	2476.7	2450.5	2334.1	2198.9	2139.0	2174.0	2441.7	3086.1	3394.1	3192.9
45°	2742.3	2737.5	2713.0	2579.5	2424.6	2357.3	2404.5	2683.2	3337.7	3715.3	3490.8
47.5°	2965.0	2968.9	2965.8	2853.4	2692.8	2594.0	2650.4	2935.2	3571.8	4017.2	3776.5
50°	3072.1	3092.7	3122.9	3087.9	2988.1	2887.5	2898.5	3178.5	3794.9	4300.2	4050.4
52.5°	3016.1	3055.1	3137.3	3193.3	3231.8	3210.8	3181.5	3420.0	4004.9	4555.7	4309.4
55°	2807.5	2862.1	2998.6	3133.8	3330.3	3483.0	3521.5	3687.7	4209.7	4780.6	4554.4
57.5°	2427.3	2516.1	2638.6	2912.0	3242.8	3614.6	3917.8	4059.2	4426.7	5020.8	4810.8
60°	1775.4	1894.4	2046.6	2453.5	2936.5	3544.2	4255.2	4629.7	4735.1	5331.8	5144.6
62.5°	1136.2	1209.7	1349.7	1732.9	2288.1	3183.3	4358.4	5342.8	5257.9	5842.0	5645.1
65°	777.9	825.1	953.3	1168.6	1479.2	2369.5	4081.9	5877.4	6088.3	6650.5	6500.9
67.5°	565.3	601.1	710.5	899.1	963.8	1402.2	3167.5	5852.9	6895.5	7483.5	7250.7
70°	412.1	437.5	529.4	710.5	741.6	780.1	1918.9	4975.3	6878.0	7704.9	7426.2
72.5°	305.4	322.9	384.6	551.3	600.3	526.8	949.8	3616.0	5910.2	6969.0	6745.4
75°	220.9	234.1	279.6	421.8	480.4	401.2	473.8	2113.1	4122.6	4902.2	4941.6
77.5°	168.9	178.9	208.7	308.9	384.6	301.0	294.0	972.1	1954.8	1964.4	2074.6
80°	135.6	142.2	158.4	217.4	294.9	225.3	191.6	392.4	617.8	522.8	548.6
82.5°	99.8	110.7	133.9	152.7	210.9	155.3	116.8	198.2	234.9	202.1	203.9
85°	56.9	64.3	80.9	109.4	134.8	94.9	66.9	87.9	109.4	89.7	80.1
87.5°	20.1	26.3	28.4	42.9	58.6	39.4	25.8	25.4	35.9	26.7	22.3
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°	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8
2.5°	1217.6	1215.4	1206.6	1194.8	1182.6	1170.8	1166.8	1158.5	1152.8	1149.8	1153.3
5°	1242.1	1235.1	1214.5	1188.3	1160.7	1130.9	1109.9	1090.7	1076.7	1063.6	1068.8
7.5°	1277.1	1264.8	1229.4	1183.4	1134.4	1085.0	1048.3	1020.3	1001.4	989.2	991.8
10°	1317.8	1298.9	1244.7	1176.0	1100.3	1029.4	986.1	962.1	950.3	943.7	945.4
12.5°	1364.6	1337.9	1260.4	1158.9	1048.3	967.3	937.6	930.6	931.0	931.4	932.3
15°	1422.3	1385.1	1273.1	1121.8	980.4	919.6	914.4	925.8	937.6	943.3	942.8
17.5°	1487.5	1435.0	1275.3	1060.5	913.9	889.0	905.6	930.1	948.1	955.9	957.7
20°	1557.5	1485.8	1259.6	973.9	859.3	864.1	893.8	925.3	945.0	955.1	957.7
22.5°	1637.6	1540.0	1221.9	882.9	814.6	836.9	871.9	902.6	923.1	933.2	935.8
25°	1729.0	1600.8	1162.9	806.3	776.1	806.3	841.3	866.7	883.3	892.5	895.1
27.5°	1830.5	1664.3	1084.1	745.5	742.4	774.8	803.7	823.4	832.1	839.1	841.8
30°	1932.4	1722.0	988.8	699.6	713.1	743.8	764.3	773.1	775.7	777.0	780.1
32.5°	2042.7	1771.9	888.6	661.5	685.1	713.6	725.8	729.8	717.5	709.2	711.8
35°	2176.1	1825.3	790.6	631.3	657.6	682.1	686.0	682.5	668.1	651.0	651.9
37.5°	2341.1	1891.8	712.3	609.9	631.8	647.9	643.1	642.3	643.6	623.4	624.8
40°	2543.2	1978.4	654.9	593.3	610.8	614.3	600.7	608.1	614.7	584.1	584.9
42.5°	2767.6	2083.0	618.6	581.9	593.3	584.9	563.9	572.3	571.4	531.1	530.7
45°	2996.5	2196.7	605.9	573.6	577.1	560.4	537.3	539.4	521.1	484.8	486.1
47.5°	3224.0	2318.8	613.8	566.6	556.9	538.1	520.2	510.6	483.4	456.3	456.3
50°	3447.1	2447.0	642.7	552.6	529.4	518.4	505.3	488.3	459.4	436.2	434.4
52.5°	3654.0	2576.0	675.1	529.4	494.8	501.4	493.1	473.4	444.9	421.3	421.8
55°	3850.0	2705.1	687.8	497.4	462.4	486.5	481.7	445.4	411.3	392.0	390.3
57.5°	4063.5	2860.4	673.8	456.8	436.2	469.4	451.1	410.8	391.1	376.7	375.4
60°	4359.3	3104.1	643.6	406.4	411.3	444.1	412.6	395.9	374.5	358.3	357.4
62.5°	4850.6	3558.6	595.0	356.6	381.9	406.4	394.2	377.6	355.7	339.9	339.9
65°	5576.8	4190.4	503.6	317.6	349.1	369.7	374.5	357.9	335.1	318.5	319.4
67.5°	6189.4	4586.8	381.1	285.3	315.4	339.9	353.5	337.3	313.3	297.1	297.5
70°	6155.7	4298.9	290.9	253.3	285.7	310.6	328.1	315.4	289.6	274.3	275.6
72.5°	5467.5	3596.3	235.4	220.9	255.5	280.0	301.0	291.4	265.1	250.3	250.3
75°	4016.7	2552.8	188.1	188.1	217.9	248.1	271.3	265.1	241.1	230.6	227.5
77.5°	1693.1	1071.0	147.4	156.2	181.1	213.1	241.9	244.1	223.1	236.3	214.4
80°	450.2	295.3	112.4	122.9	142.2	175.9	210.4	209.6	186.8	174.6	162.3
82.5°	171.5	116.4	80.1	86.6	102.8	134.8	166.7	171.9	149.2	129.1	129.1
85°	66.1	49.9	49.4	52.1	59.9	89.3	126.0	130.4	112.4	95.4	98.4
87.5°	17.1	14.9	18.4	17.5	27.6	47.7	72.2	74.8	68.7	39.8	56.9
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)