

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: P945940

Luminaire Tested: **GALN-SB1D-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945940
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-SB1D-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9693 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - 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

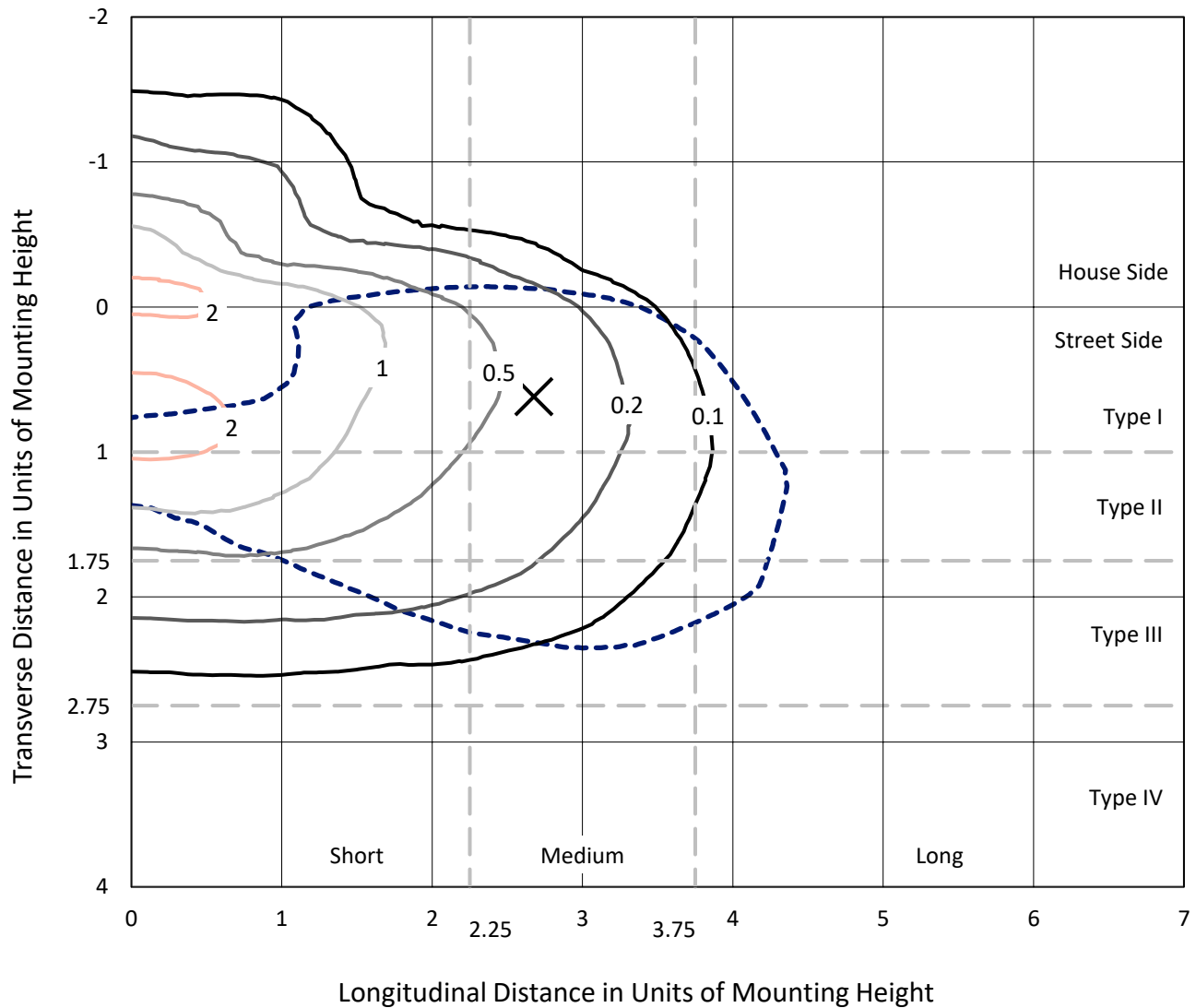


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Iso-Footcandle Lines of Horizontal Illumination

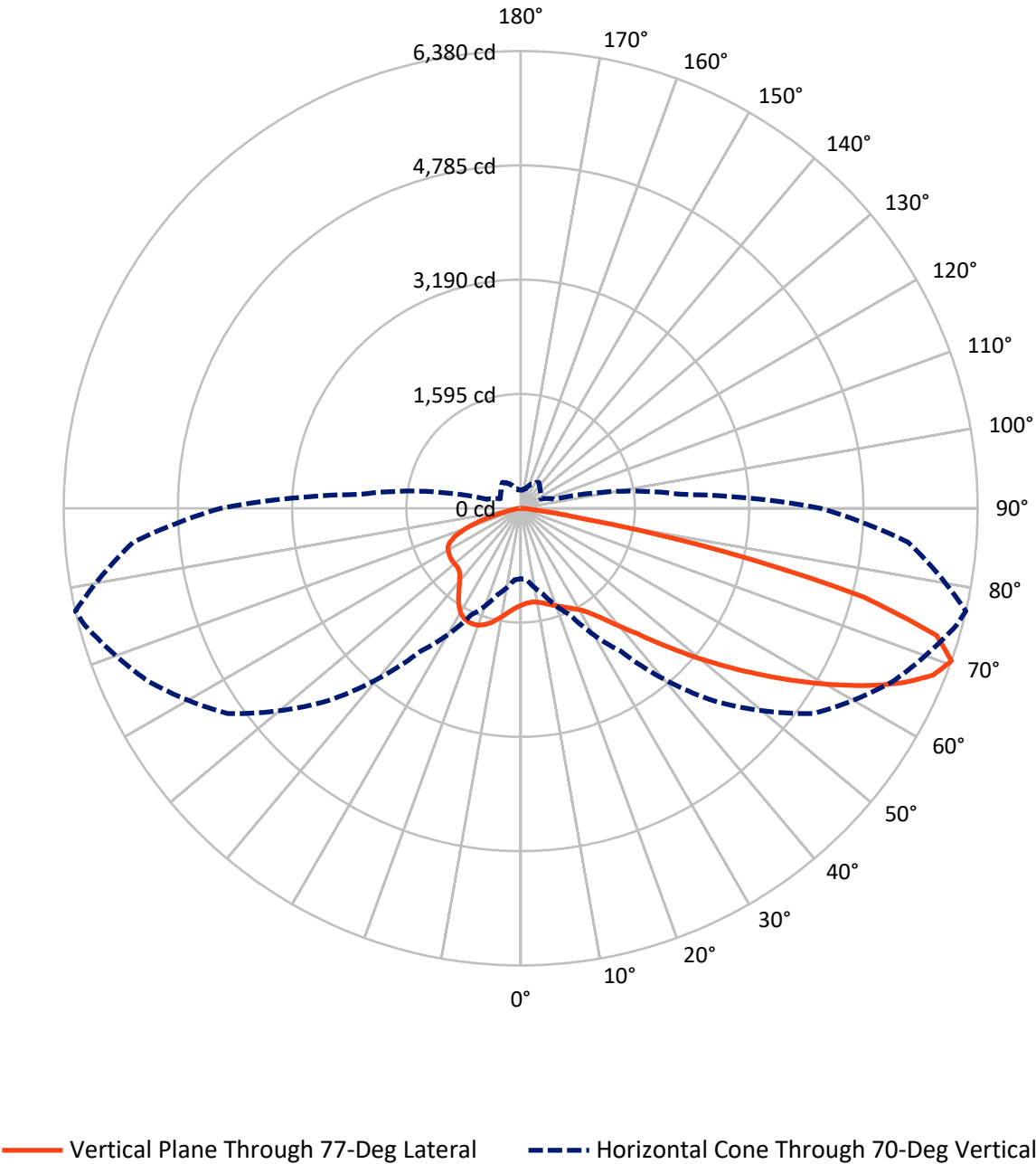
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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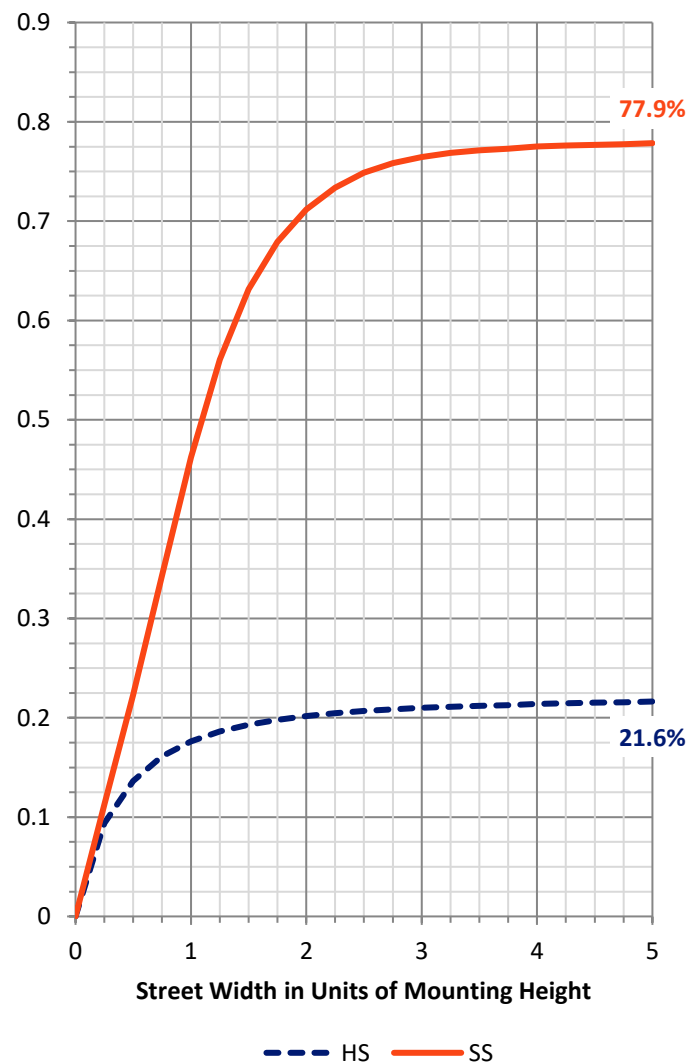
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.6	0.0	2122.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7570.4	0.0	7570.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	9693.0	0.0	9693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.3
10°-20°	372.2	3.8
20°-30°	636.5	6.6
30°-40°	1023.6	10.6
40°-50°	1598.2	16.5
50°-60°	2134.8	22.0
60°-70°	2275.3	23.5
70°-80°	1400.7	14.5
80°-90°	122.7	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°	9693.0	100.0
0°-180°	9693.0	100.0

Coefficient of Utilization



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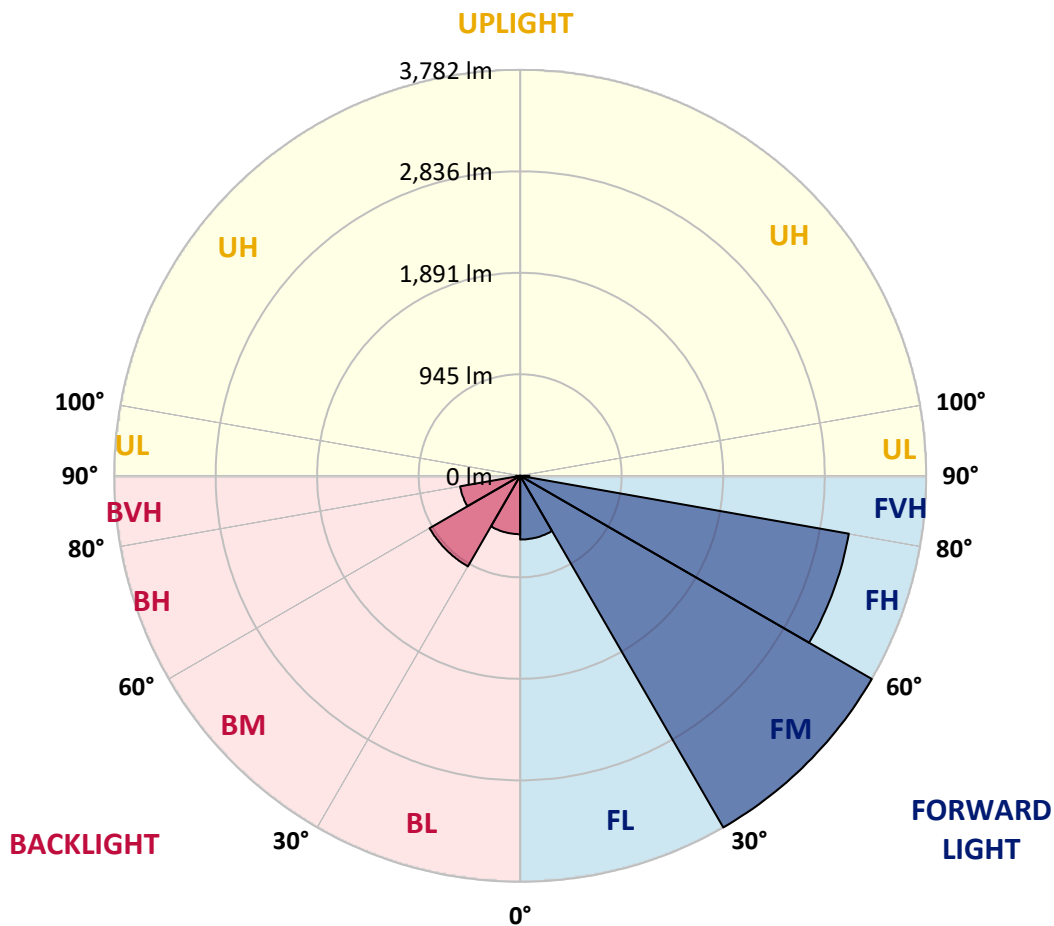
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.9	6.1			
FM	(30°-60°)	3782.0	39.0			
FH	(60°-80°)	3108.7	32.1			G2/5000
FVH	(80°-90°)	85.8	0.9			G1/100
BL	(0°-30°)	543.9	5.6	B2/1000		
BM	(30°-60°)	974.5	10.1	B1/1000		
BH	(60°-80°)	567.3	5.9	B2/1000		G2/1000
BVH	(80°-90°)	36.9	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3
2.5°	1246.5	1246.0	1252.5	1254.5	1266.4	1274.8	1290.7	1307.6	1329.4	1331.9	1345.3
5°	1174.5	1174.5	1182.0	1189.9	1205.3	1222.2	1246.5	1275.8	1313.5	1319.5	1352.8
7.5°	1113.5	1117.5	1123.9	1139.3	1157.2	1181.5	1218.7	1260.4	1310.1	1319.5	1373.1
10°	1064.3	1068.8	1076.7	1089.2	1116.0	1149.7	1198.4	1252.0	1318.5	1333.4	1402.9
12.5°	1048.9	1053.4	1057.9	1067.3	1092.1	1131.8	1189.9	1256.0	1338.9	1353.8	1443.6
15°	1084.7	1090.1	1086.7	1084.2	1097.1	1133.3	1193.9	1270.4	1364.2	1385.5	1493.7
17.5°	1167.1	1169.1	1161.1	1137.8	1135.8	1155.2	1212.8	1290.2	1395.9	1419.3	1544.4
20°	1300.1	1296.7	1280.3	1234.1	1207.8	1203.8	1245.0	1320.0	1428.7	1453.5	1599.0
22.5°	1480.8	1476.9	1444.1	1371.1	1312.5	1273.8	1291.7	1358.7	1465.4	1493.2	1652.1
25°	1706.2	1700.8	1652.6	1553.3	1462.5	1366.7	1355.2	1409.8	1510.6	1536.4	1707.7
27.5°	1969.3	1964.9	1912.7	1781.7	1650.6	1493.7	1434.2	1469.9	1557.8	1587.1	1770.3
30°	2252.3	2265.2	2172.9	2031.9	1866.1	1659.5	1540.4	1543.9	1618.8	1645.2	1846.2
32.5°	2584.9	2607.2	2496.0	2317.3	2090.9	1839.8	1674.4	1647.1	1707.7	1729.5	1942.0
35°	2914.5	2939.8	2847.5	2649.9	2389.3	2052.2	1814.4	1765.8	1825.9	1849.7	2069.1
37.5°	3199.5	3233.2	3185.6	3013.8	2708.5	2308.4	1997.1	1905.3	1971.3	2001.1	2239.9
40°	3424.3	3476.0	3472.5	3365.3	3084.8	2619.1	2228.9	2077.5	2152.0	2184.3	2446.9
42.5°	3607.0	3651.7	3690.4	3685.0	3477.5	2972.1	2501.5	2301.4	2358.0	2395.3	2679.7
45°	3733.1	3780.8	3864.2	3954.0	3855.2	3349.9	2813.7	2567.0	2618.6	2674.7	2957.2
47.5°	3845.8	3899.9	4008.1	4150.6	4175.9	3729.1	3155.8	2876.3	2923.4	2981.5	3235.7
50°	3855.7	3902.4	4070.2	4272.2	4403.8	4093.5	3523.1	3223.3	3267.5	3329.5	3534.1
52.5°	3616.0	3689.4	3982.3	4268.8	4508.5	4398.3	3888.0	3584.2	3633.8	3708.3	3842.8
55°	2806.8	2914.5	3724.7	4135.7	4471.3	4595.4	4235.0	3967.9	4031.5	4109.4	4153.6
57.5°	2417.6	2464.8	2956.7	3893.5	4301.5	4646.5	4527.9	4355.6	4457.9	4543.3	4482.2
60°	2172.9	2212.1	2503.0	3516.7	4078.1	4565.6	4754.3	4717.0	4893.8	4995.5	4818.3
62.5°	1910.7	1948.0	2212.6	2936.4	3792.2	4431.1	4897.2	5050.6	5340.5	5451.7	5135.0
65°	1650.6	1682.4	1936.1	2467.2	3428.8	4296.6	4971.2	5339.1	5754.1	5869.2	5398.1
67.5°	1360.7	1387.0	1626.8	2081.5	2987.0	4112.4	5007.9	5565.9	6114.0	6212.8	5528.2
70°	981.9	1002.3	1250.0	1646.1	2432.5	3795.7	4993.0	5726.8	6300.6	6379.6	5429.9
72.5°	464.2	482.5	773.4	1068.8	1718.1	3179.1	4691.7	5599.2	6111.0	6071.8	4828.2
75°	247.7	263.6	444.3	586.3	907.5	2179.3	3839.4	4823.3	5131.5	4940.9	3568.3
77.5°	167.8	180.2	275.0	352.0	414.5	1034.5	2467.7	3339.5	3212.9	2898.1	1787.1
80°	133.0	145.9	225.4	238.3	200.6	373.8	1019.7	1545.9	1110.5	888.1	508.3
82.5°	102.3	116.7	189.6	172.8	109.2	153.4	296.9	489.0	284.5	216.4	123.1
85°	62.5	77.9	148.9	110.2	61.6	70.0	100.8	136.0	86.9	72.5	44.2
87.5°	31.8	44.7	75.5	40.2	27.8	16.4	26.8	26.8	22.8	19.9	11.4
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°	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3
2.5°	1357.2	1367.2	1384.0	1399.9	1412.3	1424.2	1436.2	1442.6	1444.6	1452.5	1457.0
5°	1373.1	1391.5	1424.2	1455.0	1474.4	1486.3	1494.7	1499.7	1500.7	1503.2	1507.1
7.5°	1402.4	1431.7	1477.4	1508.1	1522.5	1521.5	1518.1	1505.7	1500.7	1496.2	1497.2
10°	1443.6	1482.3	1538.4	1559.8	1550.8	1527.0	1496.2	1460.0	1443.1	1426.7	1421.8
12.5°	1494.7	1543.9	1599.0	1598.0	1553.8	1492.8	1421.3	1365.7	1330.4	1305.1	1299.1
15°	1556.8	1613.4	1655.6	1621.8	1525.0	1415.3	1310.6	1238.1	1206.3	1178.5	1175.5
17.5°	1620.8	1681.4	1700.8	1614.4	1452.5	1300.6	1182.0	1124.9	1093.6	1078.7	1083.2
20°	1683.4	1743.4	1727.6	1571.7	1342.3	1170.6	1064.8	1033.6	1027.1	1030.6	1029.1
22.5°	1749.4	1803.0	1733.0	1489.3	1201.8	1037.5	979.4	980.4	994.8	1005.3	1007.7
25°	1816.9	1853.2	1718.6	1370.1	1050.9	939.7	925.3	941.2	969.5	989.9	995.3
27.5°	1881.9	1897.8	1687.3	1222.7	921.4	869.7	872.2	905.0	947.7	976.0	982.9
30°	1955.4	1937.5	1627.3	1056.9	831.5	809.7	830.5	868.7	911.4	936.8	942.7
32.5°	2038.3	1971.8	1532.0	903.5	768.0	761.5	795.8	820.6	839.5	846.9	850.9
35°	2141.6	2020.0	1409.8	795.8	710.9	726.3	759.0	746.6	739.2	735.2	739.2
37.5°	2275.6	2085.0	1266.9	725.8	664.7	701.0	714.4	675.6	646.3	631.9	635.4
40°	2437.0	2180.3	1129.4	671.7	635.4	679.1	655.8	609.1	571.9	551.5	553.0
42.5°	2616.2	2280.1	1013.7	631.0	619.0	661.2	612.6	557.0	496.9	490.5	496.9
45°	2804.3	2382.8	934.8	599.7	611.1	645.8	587.8	497.9	455.2	481.5	495.4
47.5°	2992.5	2477.2	887.1	576.3	607.1	628.5	565.9	465.2	434.9	473.1	491.0
50°	3201.9	2561.6	865.8	559.5	602.7	621.5	533.2	456.7	413.5	438.8	457.7
52.5°	3409.9	2627.1	849.9	542.6	596.2	616.1	517.3	446.8	387.7	389.2	399.6
55°	3617.4	2669.8	832.5	520.3	581.8	604.1	515.8	435.9	368.3	361.4	366.4
57.5°	3838.9	2694.1	811.2	495.4	557.0	573.9	514.3	427.4	362.4	351.0	352.5
60°	4064.2	2729.8	783.4	465.2	523.7	537.6	510.8	424.4	358.9	339.6	341.0
62.5°	4266.3	2742.3	750.1	436.4	481.0	501.9	503.4	422.0	349.5	316.2	316.2
65°	4398.8	2688.6	692.0	403.6	434.9	465.2	489.0	413.5	332.6	299.3	299.3
67.5°	4393.4	2535.7	601.2	361.4	390.2	424.4	468.1	399.1	312.3	278.5	280.0
70°	4188.8	2233.9	486.0	312.3	341.0	380.8	441.3	377.8	287.9	255.7	258.6
72.5°	3592.6	1748.4	353.0	254.7	284.0	335.6	406.6	352.0	263.1	235.3	233.8
75°	2566.5	1106.5	239.3	195.6	220.9	284.5	363.4	321.7	240.3	236.3	222.9
77.5°	1311.1	528.7	158.4	143.0	153.9	224.4	305.3	287.4	243.7	195.1	173.7
80°	426.4	195.1	99.8	97.3	102.3	149.4	236.3	235.8	184.7	132.5	117.2
82.5°	136.0	83.9	65.0	62.5	60.1	93.8	164.8	186.7	124.6	83.9	83.4
85°	54.1	50.1	38.2	35.2	25.3	44.2	86.4	124.1	92.8	60.6	62.1
87.5°	19.9	19.9	10.4	7.4	5.5	14.9	23.3	37.2	53.1	31.3	30.8
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)