

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: P648268

Luminaire Tested: **GALN-SA2B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8770.4 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

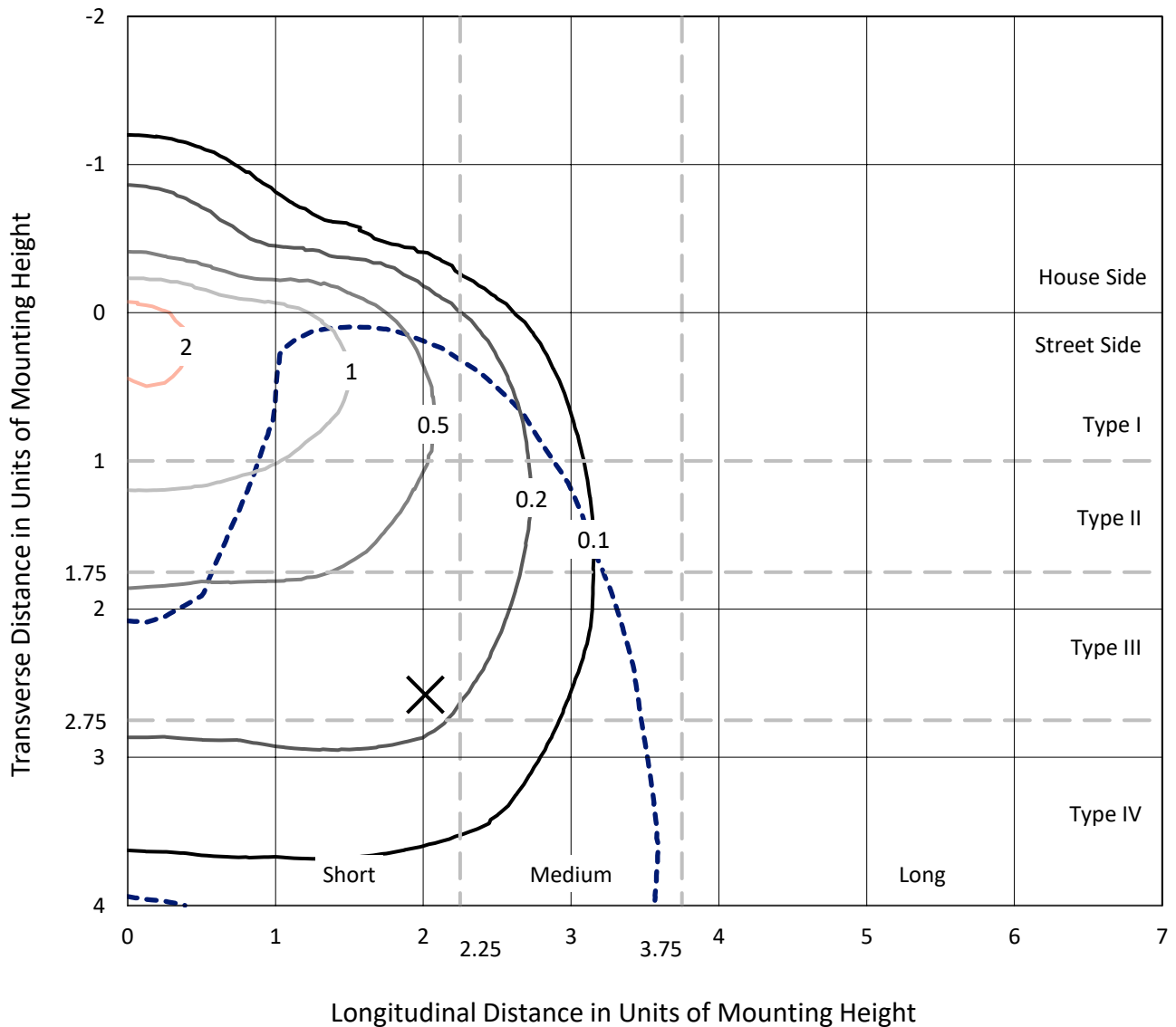
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

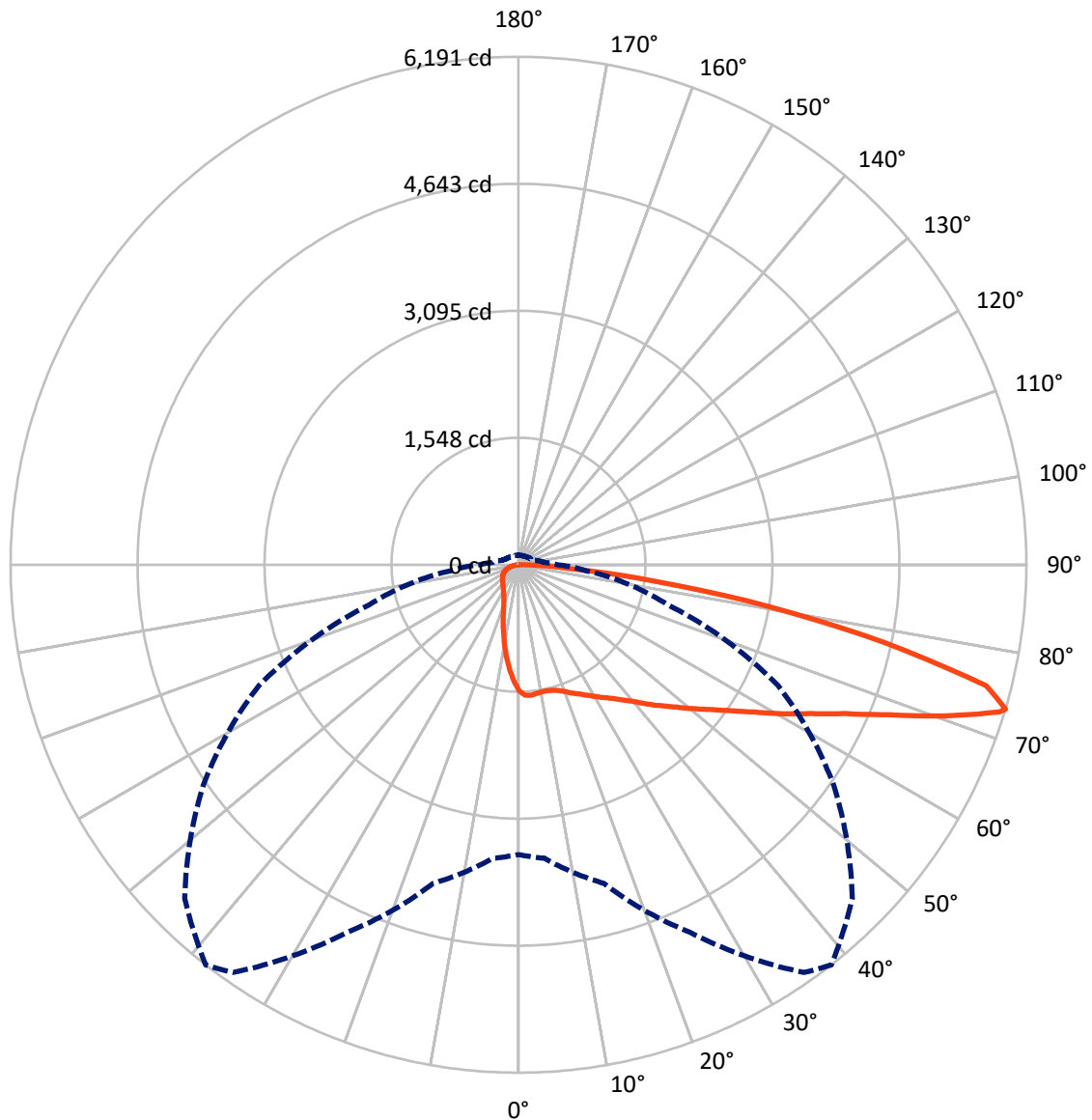
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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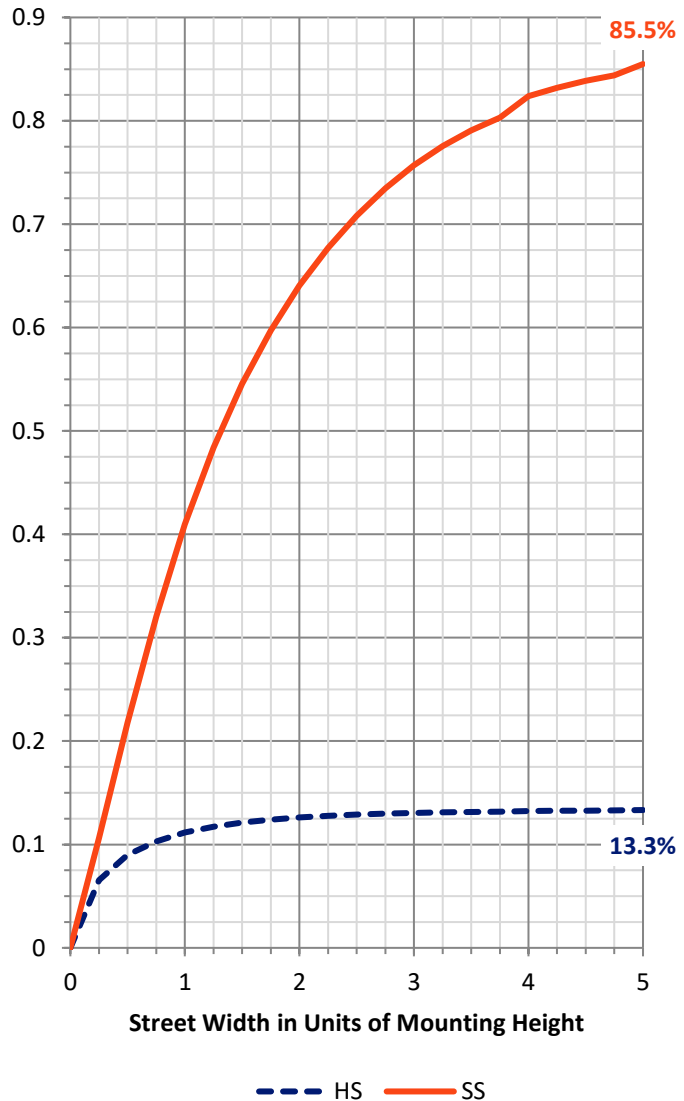
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1179.0	0.0	1179.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7591.4	0.0	7591.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	8770.4	0.0	8770.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.5
10°-20°	344.9	3.9
20°-30°	537.1	6.1
30°-40°	787.7	9.0
40°-50°	1168.5	13.3
50°-60°	1655.6	18.9
60°-70°	2100.1	23.9
70°-80°	1748.2	19.9
80°-90°	293.7	3.3
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°	8770.4	100.0
0°-180°	8770.4	100.0

Coefficient of Utilization

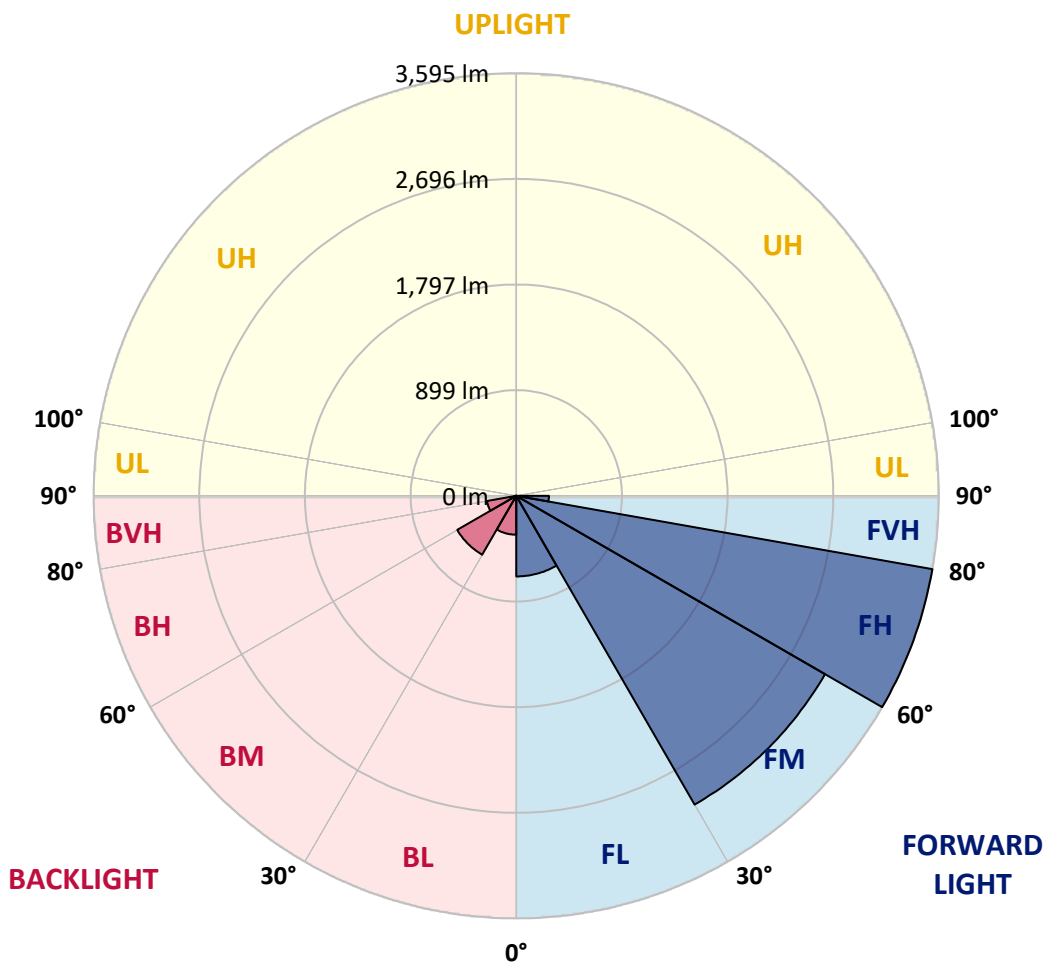


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.6	7.8			
FM (30°-60°)	3033.0	34.6			
FH (60°-80°)	3594.9	41.0			G2/5000
FVH (80°-90°)	277.8	3.2			G3/500
BL (0°-30°)	330.8	3.8	B1/500		
BM (30°-60°)	578.8	6.6	B1/1000		
BH (60°-80°)	253.4	2.9	B1/500		G1/500
BVH (80°-90°)	15.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8
2.5°	1602.7	1610.6	1606.7	1601.2	1597.8	1594.3	1589.3	1575.0	1563.6	1551.2	1531.9
5°	1614.6	1619.6	1616.1	1609.1	1601.2	1597.8	1588.3	1569.5	1551.2	1530.4	1501.7
7.5°	1607.7	1609.6	1605.7	1597.2	1590.4	1583.9	1573.0	1552.2	1529.9	1504.7	1467.0
10°	1582.9	1590.4	1590.4	1583.4	1576.5	1573.0	1562.1	1542.3	1522.0	1493.3	1448.7
12.5°	1562.6	1570.5	1577.0	1575.0	1574.5	1574.5	1566.1	1551.2	1527.4	1500.2	1447.2
15°	1548.7	1558.2	1572.0	1579.9	1584.9	1586.4	1582.9	1570.0	1545.8	1514.1	1453.2
17.5°	1545.8	1557.2	1582.4	1599.7	1612.6	1612.1	1611.1	1593.3	1566.5	1533.9	1460.6
20°	1559.1	1574.0	1609.1	1636.4	1655.2	1651.7	1646.3	1623.0	1591.8	1555.2	1467.5
22.5°	1599.3	1614.6	1653.2	1683.0	1701.3	1701.3	1684.9	1654.2	1621.0	1579.9	1476.9
25°	1656.7	1673.5	1714.6	1744.8	1753.3	1746.9	1730.5	1693.3	1655.2	1615.6	1496.7
27.5°	1727.1	1747.3	1785.5	1810.8	1808.3	1803.3	1786.5	1738.9	1700.8	1664.7	1530.4
30°	1814.7	1829.6	1869.2	1875.1	1866.2	1865.2	1841.5	1793.9	1758.2	1730.5	1578.4
32.5°	1897.4	1910.8	1942.5	1945.0	1929.1	1931.1	1908.8	1865.2	1844.9	1835.0	1659.2
35°	1985.1	1992.0	2019.3	2016.3	2005.9	2004.4	1995.5	1953.9	1960.3	1978.2	1773.6
37.5°	2058.4	2072.2	2087.6	2090.1	2089.6	2094.5	2100.5	2080.7	2117.8	2173.8	1923.7
40°	2125.8	2137.6	2160.4	2168.4	2187.6	2197.6	2217.8	2218.3	2304.1	2396.1	2108.4
42.5°	2171.3	2191.6	2234.2	2248.5	2295.6	2325.4	2355.6	2387.8	2512.0	2630.4	2326.3
45°	2210.9	2237.7	2308.5	2353.1	2417.0	2453.1	2517.0	2584.4	2763.1	2918.2	2547.7
47.5°	2270.9	2294.6	2375.9	2454.6	2551.2	2592.7	2688.4	2788.9	3022.7	3192.5	2759.7
50°	2354.1	2368.4	2451.1	2579.4	2702.8	2756.2	2882.5	3027.6	3300.0	3463.4	2945.9
52.5°	2460.5	2466.5	2532.4	2703.2	2865.7	2932.0	3099.4	3268.9	3542.7	3698.7	3093.5
55°	2586.3	2576.5	2627.9	2834.5	3051.9	3138.6	3318.4	3513.0	3815.6	3888.9	3201.0
57.5°	2710.7	2695.3	2736.4	2994.0	3281.7	3386.2	3595.7	3764.6	4059.3	4066.7	3276.2
60°	2842.4	2831.0	2880.0	3181.2	3563.5	3687.3	3881.0	4025.6	4295.1	4190.5	3288.1
62.5°	2977.6	2959.3	3029.1	3391.6	3881.0	3993.5	4181.1	4303.0	4526.4	4236.6	3173.7
65°	3108.8	3100.4	3208.4	3641.8	4242.5	4370.3	4552.6	4635.3	4711.5	4167.3	2890.0
67.5°	3248.5	3265.3	3437.7	3975.6	4714.1	4874.5	5071.2	4993.3	4764.6	3838.9	2433.8
70°	3461.5	3472.4	3738.8	4412.9	5321.7	5515.4	5610.5	5120.7	4509.0	3215.3	1829.6
72.5°	3553.1	3601.2	4007.8	4872.1	6012.2	6130.6	5791.8	4836.9	3756.2	2184.2	961.4
73°	3532.8	3590.3	4020.2	4941.9	6066.1	6190.5	5753.2	4690.8	3491.7	1881.1	824.1
75°	3279.8	3350.5	3859.2	4883.4	5961.1	5886.8	5132.1	3997.8	2359.5	855.3	375.4
77.5°	2587.8	2608.1	3057.8	3943.4	4694.2	4556.6	3840.8	2498.7	963.8	318.0	213.0
80°	1298.1	1372.9	1723.5	2259.0	3139.0	3094.0	2424.4	1181.7	401.7	186.7	141.2
82.5°	624.5	677.5	839.5	1101.5	1734.4	1693.3	1200.6	645.8	255.1	109.0	83.2
85°	402.1	441.8	534.4	525.5	713.2	681.0	539.3	488.8	151.0	56.9	57.9
87.5°	265.4	290.7	348.7	278.8	259.5	234.7	238.3	275.4	29.8	21.8	7.9
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°	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8	1540.8
2.5°	1524.0	1517.5	1496.2	1475.4	1455.6	1436.8	1424.4	1408.1	1397.2	1400.2	1404.6
5°	1485.8	1471.5	1433.8	1397.2	1362.5	1321.4	1288.2	1261.5	1241.1	1233.8	1232.3
7.5°	1445.7	1421.5	1367.4	1304.6	1245.6	1194.6	1135.7	1106.5	1072.2	1060.4	1056.4
10°	1421.5	1388.7	1313.0	1225.3	1136.7	1052.0	988.1	936.1	889.0	880.1	875.6
12.5°	1414.5	1371.4	1269.4	1156.5	1038.6	934.6	840.0	771.6	726.1	715.7	700.3
15°	1410.6	1357.1	1228.8	1087.1	937.6	810.8	711.2	631.5	589.9	562.1	562.7
17.5°	1407.1	1340.7	1183.2	1011.3	850.4	704.3	594.3	522.5	484.4	469.5	468.0
20°	1402.1	1321.4	1130.7	931.6	750.8	607.2	507.7	454.1	428.4	416.0	415.5
22.5°	1400.2	1302.6	1079.2	850.4	662.7	532.4	450.2	412.6	396.2	387.8	387.8
25°	1405.1	1289.2	1025.3	773.1	584.4	468.5	410.6	384.8	375.4	371.0	369.5
27.5°	1420.4	1283.3	971.7	695.9	512.6	424.9	383.8	366.0	359.1	355.6	356.1
30°	1449.6	1282.8	919.2	619.6	459.2	391.7	362.5	350.2	344.7	342.7	342.2
32.5°	1496.7	1293.7	867.7	556.7	414.1	364.0	342.7	333.8	331.4	329.9	329.3
35°	1576.5	1324.4	816.7	499.2	379.4	339.3	323.9	319.5	316.0	317.5	318.0
37.5°	1683.9	1377.4	768.2	454.1	353.1	321.0	308.0	304.1	302.1	303.6	305.1
40°	1828.1	1453.6	727.6	418.0	334.3	305.6	294.2	290.7	288.8	291.2	291.7
42.5°	1987.0	1541.8	693.9	389.8	319.0	292.7	281.8	277.9	276.4	277.9	278.4
45°	2150.5	1644.3	676.5	369.5	306.1	283.3	271.9	267.5	263.9	263.0	264.5
47.5°	2311.5	1733.5	676.0	357.1	295.7	274.9	262.5	257.5	253.1	250.6	250.1
50°	2442.7	1804.3	687.9	351.6	286.7	265.4	253.1	248.1	242.2	237.2	238.3
52.5°	2541.8	1850.4	693.4	349.1	281.8	255.6	243.2	238.7	231.8	225.3	225.3
55°	2605.7	1861.3	680.0	346.7	277.9	245.2	231.8	227.9	220.9	214.5	214.5
57.5°	2627.4	1827.6	632.0	340.8	273.9	236.2	220.4	217.0	211.5	205.1	204.0
60°	2576.9	1713.7	547.8	322.9	266.0	226.8	208.0	206.6	204.5	199.1	198.6
62.5°	2382.3	1472.0	456.2	299.7	252.6	217.0	196.6	199.1	200.6	197.6	197.2
65°	2058.4	1195.1	389.8	267.5	234.7	203.0	184.2	190.7	194.7	194.7	193.6
67.5°	1669.6	917.8	328.4	239.7	212.5	184.2	170.4	175.3	178.3	177.3	179.8
70°	1186.7	621.5	267.5	208.0	184.2	162.9	152.5	152.5	150.6	149.6	149.6
72.5°	575.5	355.1	217.0	173.8	157.0	139.1	130.8	127.3	123.3	122.9	120.3
73°	480.9	318.4	207.0	167.4	150.6	135.7	126.3	120.8	118.4	116.4	115.9
75°	292.7	241.7	172.9	141.2	128.3	116.9	108.4	103.5	101.0	99.5	99.0
77.5°	192.7	180.2	134.2	108.0	98.0	91.1	87.7	82.7	81.2	79.2	79.2
80°	143.6	137.7	96.1	76.3	70.3	64.4	63.4	62.4	58.4	56.0	55.0
82.5°	92.6	98.0	65.4	51.1	44.6	39.6	40.1	41.6	37.7	34.1	33.2
85°	65.9	70.9	39.6	23.3	18.8	16.4	18.3	16.4	16.8	13.4	10.9
87.5°	10.9	18.8	7.0	3.0	1.5	1.0	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)