

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: P451357

Luminaire Tested: **GALN-SA2B-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9552 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

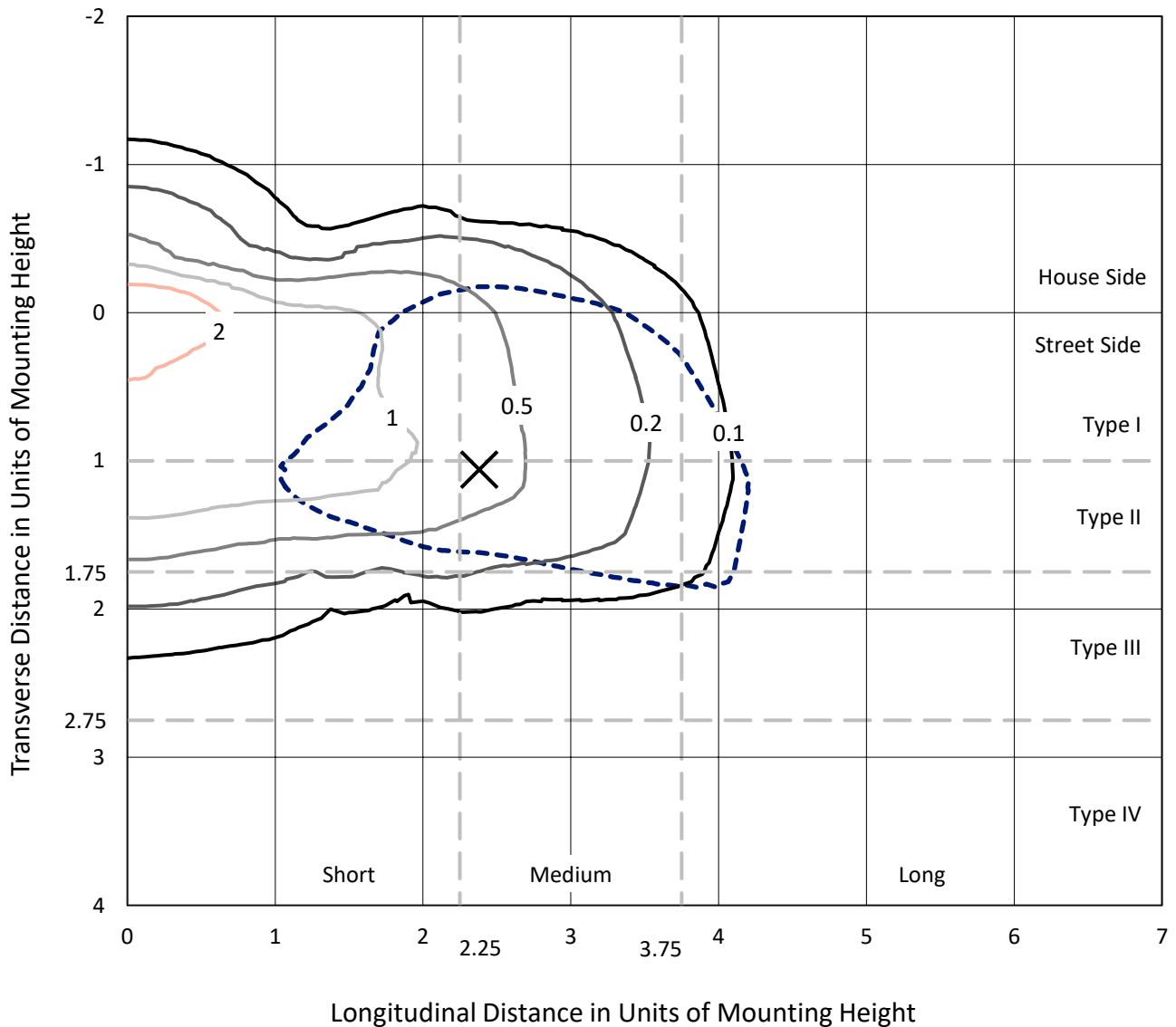
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

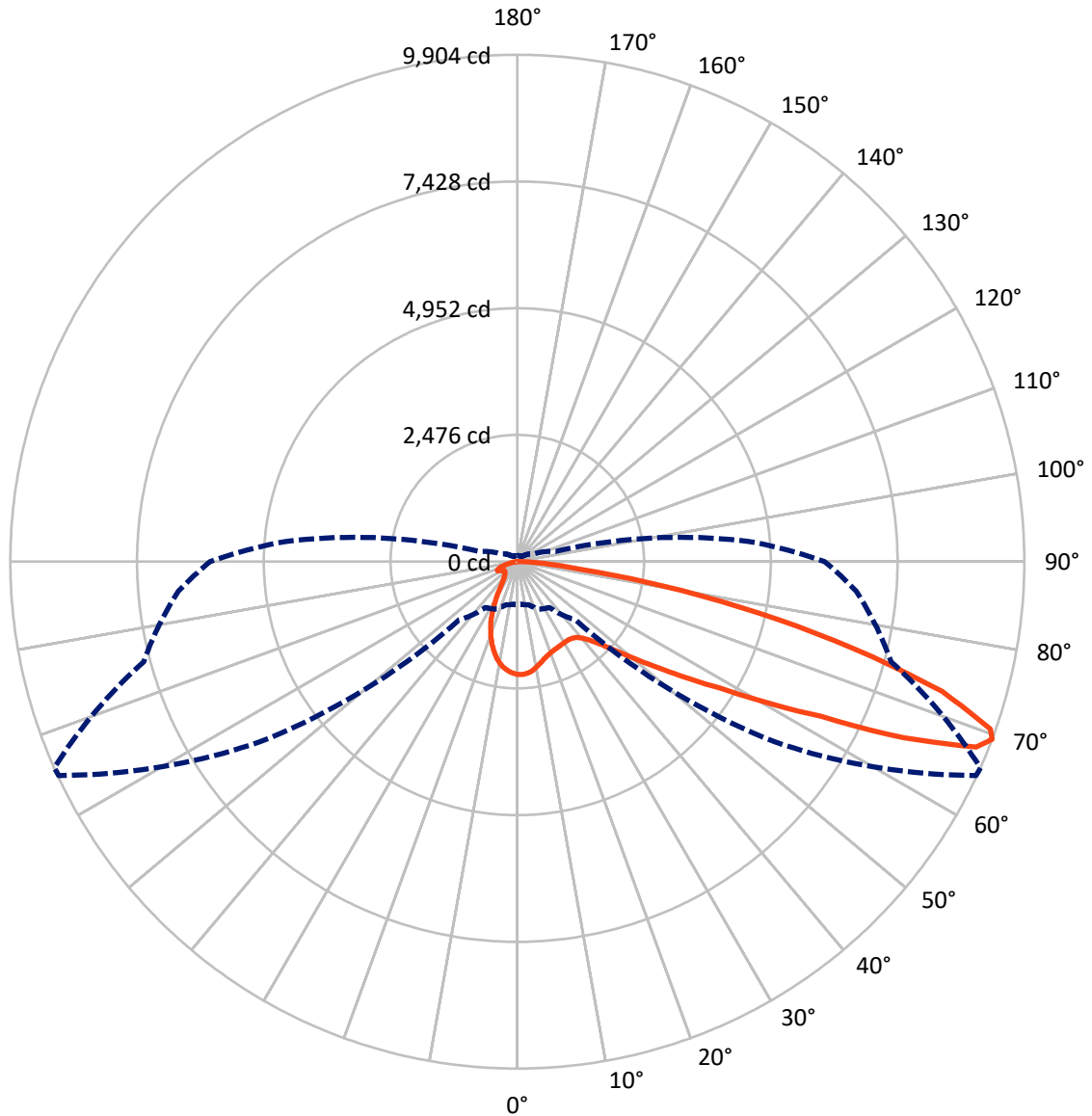
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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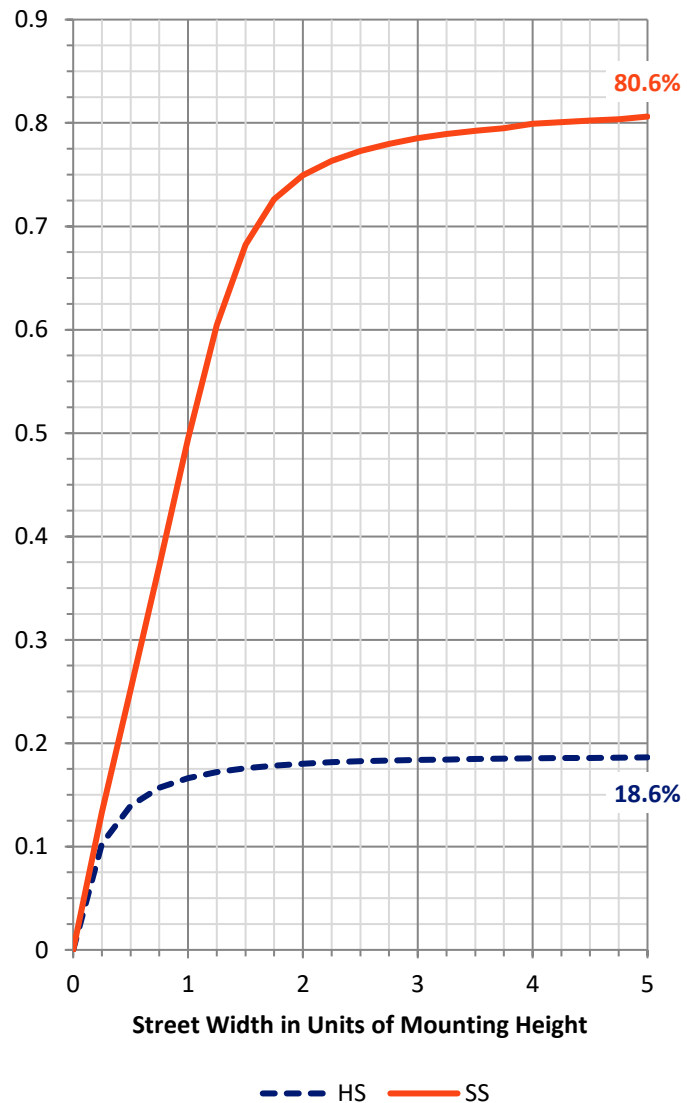
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1796.4	0.0	1796.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7755.6	0.0	7755.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	9552.0	0.0	9552.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	2.0
10°-20°	454.3	4.8
20°-30°	618.5	6.5
30°-40°	831.2	8.7
40°-50°	1241.1	13.0
50°-60°	1974.1	20.7
60°-70°	2428.1	25.4
70°-80°	1579.8	16.5
80°-90°	233.3	2.4
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°	9552.0	100.0
0°-180°	9552.0	100.0



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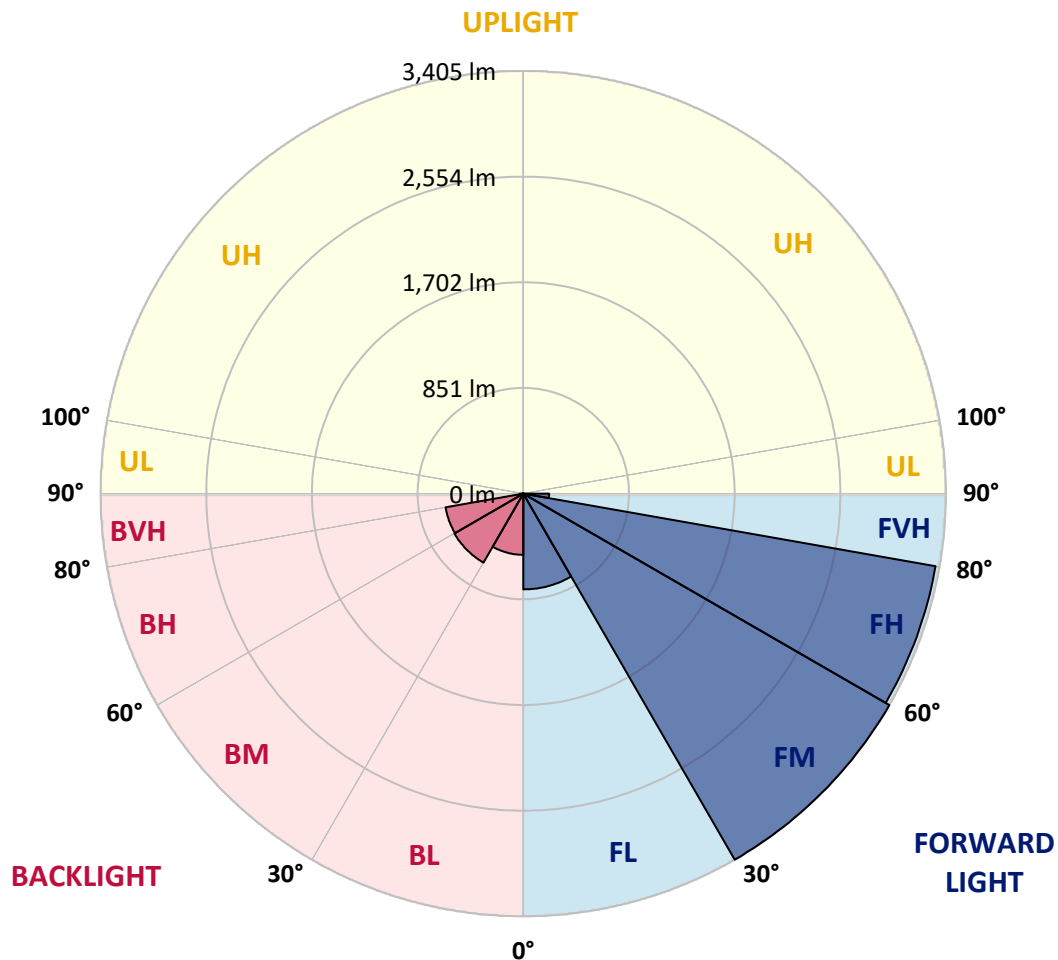
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	771.3	8.1			
FM	(30°-60°)	3405.0	35.6			
FH	(60°-80°)	3371.9	35.3			G2/5000
FVH	(80°-90°)	207.4	2.2			G2/225
BL	(0°-30°)	493.1	5.2	B1/500		
BM	(30°-60°)	641.4	6.7	B1/1000		
BH	(60°-80°)	636.0	6.7	B2/1000		G2/1000
BVH	(80°-90°)	25.9	0.3			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°	66°	75°	85°
0°	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8
2.5°	2128.6	2137.1	2146.6	2157.2	2177.3	2188.4	2196.3	2205.3	2206.4	2211.1	2207.4
5°	1971.5	1981.5	1995.8	2015.9	2046.1	2093.2	2141.8	2181.5	2186.3	2208.5	2214.8
7.5°	1840.3	1846.1	1857.8	1890.0	1932.9	1985.2	2056.1	2136.5	2148.2	2201.1	2219.6
10°	1733.4	1739.3	1753.0	1786.3	1828.7	1894.3	1972.0	2077.8	2087.3	2178.3	2220.6
12.5°	1653.6	1658.9	1673.7	1706.5	1755.1	1816.5	1902.2	2014.3	2028.1	2148.2	2210.6
15°	1592.7	1602.8	1615.0	1641.9	1693.2	1752.5	1835.5	1956.1	1967.3	2116.4	2203.7
17.5°	1566.8	1571.6	1580.0	1604.9	1642.5	1700.7	1784.2	1910.7	1923.9	2094.2	2202.1
20°	1567.9	1572.6	1574.2	1588.0	1615.0	1665.2	1747.7	1874.7	1890.6	2074.6	2204.8
22.5°	1603.8	1604.4	1598.6	1593.8	1604.4	1646.2	1721.8	1847.7	1866.2	2066.2	2206.9
25°	1659.4	1668.9	1660.4	1638.2	1618.7	1638.8	1711.8	1832.9	1850.4	2054.0	2204.2
27.5°	1749.3	1750.9	1744.0	1713.9	1663.1	1648.3	1707.5	1821.8	1836.6	2045.0	2191.0
30°	1869.9	1865.2	1858.8	1825.5	1745.6	1684.8	1716.5	1811.7	1827.1	2031.8	2175.1
32.5°	1992.1	2006.9	2001.1	1962.0	1858.3	1755.7	1745.6	1810.7	1823.4	2021.7	2157.7
35°	2121.7	2128.6	2156.1	2136.0	2029.7	1870.5	1800.1	1827.1	1837.1	2022.3	2145.5
37.5°	2223.3	2241.8	2306.3	2323.8	2223.8	2022.3	1888.4	1873.6	1877.9	2048.2	2150.3
40°	2346.0	2377.7	2460.8	2532.2	2466.6	2219.6	2038.7	1959.8	1965.1	2110.6	2181.5
42.5°	2501.5	2523.7	2635.3	2732.2	2721.6	2480.4	2220.6	2101.1	2103.7	2234.9	2268.8
45°	2683.5	2715.2	2840.6	2986.1	3010.9	2775.5	2483.5	2314.8	2313.2	2428.0	2431.7
47.5°	2916.2	2935.8	3060.1	3218.8	3319.3	3146.3	2802.5	2621.6	2604.7	2709.4	2679.3
50°	3130.5	3161.1	3255.3	3428.8	3679.0	3580.6	3222.0	3019.4	2979.7	3077.6	3026.8
52.5°	3220.4	3252.7	3332.0	3547.3	3987.4	4142.4	3754.7	3493.9	3427.8	3502.9	3484.4
55°	3064.3	3106.1	3180.2	3442.0	4122.8	4790.4	4473.0	4042.4	3994.3	3962.0	3967.3
57.5°	2644.9	2684.5	2784.5	3073.3	3961.0	5260.6	5498.7	4747.5	4644.4	4495.8	4521.1
60°	2013.3	2038.1	2090.0	2410.0	3481.2	5382.8	6663.5	5638.9	5573.3	5027.4	5045.4
62.5°	1429.8	1457.9	1493.8	1653.6	2548.6	5038.5	7575.4	6883.5	6649.2	5578.0	5560.6
65°	1161.1	1142.1	1185.4	1260.0	1495.4	3904.9	7780.7	8611.2	8288.5	6303.3	6061.0
67.5°	954.8	934.7	977.5	1110.3	1137.3	2266.7	7041.2	9732.6	9668.1	7092.0	6569.3
69°	845.3	834.7	872.3	1023.6	1091.8	1609.7	6134.0	9888.6	9904.0	7556.9	6647.6
70°	761.7	766.0	802.5	979.7	1071.2	1327.2	5242.7	9673.4	9803.5	7789.1	6563.0
72.5°	560.7	569.7	620.5	811.4	1051.6	1126.2	3119.9	8449.3	8679.4	7802.9	6003.9
75°	392.0	387.7	432.7	611.0	993.4	1116.1	1832.4	6534.4	6795.2	6744.4	5044.8
77.5°	256.6	263.4	299.4	431.6	835.8	1107.7	1194.4	4635.9	4805.2	4510.6	2983.9
80°	180.9	180.4	200.5	294.6	620.0	1064.3	978.1	2922.1	2879.2	1772.6	885.0
82.5°	103.7	111.1	134.4	207.4	414.7	936.8	899.8	1397.5	1275.9	505.2	298.9
85°	57.7	60.3	79.9	125.4	242.3	705.7	785.5	635.8	599.9	211.1	128.5
87.5°	18.5	20.1	33.3	63.5	110.0	333.3	444.9	293.6	270.8	76.2	51.8
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°	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8	2205.8
2.5°	2209.0	2215.3	2198.4	2182.0	2167.2	2146.6	2128.1	2112.7	2102.1	2100.6	2095.3
5°	2216.4	2216.9	2184.7	2141.3	2099.0	2052.4	2004.3	1969.9	1937.6	1919.6	1910.7
7.5°	2221.7	2216.9	2158.7	2088.4	2006.9	1922.3	1837.7	1769.9	1717.6	1696.9	1704.9
10°	2219.6	2204.8	2119.6	2006.9	1888.4	1762.0	1640.3	1545.1	1457.9	1412.9	1413.9
12.5°	2207.9	2183.6	2061.4	1915.4	1741.4	1572.1	1385.9	1257.4	1156.3	1096.6	1078.0
15°	2197.9	2155.6	1993.2	1791.1	1574.8	1333.0	1106.1	947.4	862.8	815.7	815.1
17.5°	2187.3	2128.6	1918.6	1659.4	1383.3	1072.2	834.2	713.1	673.4	678.1	670.2
20°	2176.2	2096.9	1840.8	1512.9	1150.0	799.8	624.7	575.5	586.6	608.3	611.5
22.5°	2163.5	2063.0	1757.3	1351.5	904.5	602.0	506.8	499.4	527.9	561.8	566.5
25°	2143.9	2020.7	1652.0	1182.8	697.7	485.1	443.8	449.1	477.1	505.7	508.9
27.5°	2116.4	1968.3	1545.7	972.3	524.2	416.3	405.7	412.6	426.4	443.8	448.0
30°	2079.4	1909.1	1423.5	790.3	420.0	381.9	377.7	381.4	389.3	396.7	398.8
32.5°	2042.4	1851.9	1300.2	605.1	374.5	359.2	354.9	354.9	354.9	356.0	356.5
35°	2008.0	1798.0	1168.0	471.3	350.7	341.2	335.4	329.0	328.0	324.3	324.3
37.5°	1988.9	1748.8	1027.3	394.6	333.3	326.4	318.4	307.9	302.0	302.6	301.5
40°	1992.6	1716.5	899.3	351.2	319.0	311.6	299.4	287.2	283.5	283.5	282.5
42.5°	2034.4	1705.9	776.5	328.5	305.2	296.8	281.4	270.3	268.2	267.7	268.7
45°	2130.7	1731.9	666.5	313.7	293.6	280.9	265.5	255.5	253.4	253.4	252.8
47.5°	2318.5	1816.0	587.7	304.2	285.1	268.7	252.8	242.8	239.1	238.0	238.0
50°	2610.5	1998.5	529.0	295.7	274.5	257.6	241.2	229.6	223.8	223.2	222.7
52.5°	3016.2	2283.1	506.2	289.3	262.9	246.0	228.0	216.9	209.5	207.9	206.8
55°	3490.7	2680.3	537.4	284.6	250.7	232.7	214.2	202.6	195.7	192.5	192.0
57.5°	4040.3	3157.4	655.9	278.2	239.6	218.5	200.5	188.8	181.4	177.7	176.7
60°	4533.8	3647.8	862.8	274.5	230.1	203.1	184.6	174.0	167.2	163.5	162.9
62.5°	5076.0	4115.4	1109.8	284.6	225.9	188.3	169.8	160.3	154.5	150.8	150.8
65°	5655.3	4583.6	1273.2	318.4	232.2	176.7	153.9	146.0	140.7	138.1	137.5
67.5°	6045.6	4745.4	1049.0	353.4	248.1	164.0	138.6	132.2	129.1	126.4	126.4
69°	6003.3	4540.7	773.9	362.3	252.8	157.6	130.1	125.4	121.1	120.1	119.0
70°	5869.5	4307.4	648.5	356.5	249.1	151.8	124.8	119.0	115.3	114.3	113.7
72.5°	5227.9	3735.6	483.0	310.0	212.1	131.7	110.6	105.3	102.1	100.5	100.5
75°	4343.4	3053.2	377.2	246.5	166.1	111.1	94.7	90.5	87.8	86.8	86.2
77.5°	2434.3	1704.9	270.8	193.1	125.9	89.9	79.3	75.6	73.0	71.9	71.9
80°	678.1	487.2	159.2	127.5	85.7	68.2	62.9	60.3	56.6	54.0	55.5
82.5°	255.5	211.1	91.0	76.7	54.5	45.5	43.9	41.8	40.2	36.5	36.5
85°	124.3	102.6	58.2	40.7	30.2	23.8	22.7	21.7	20.6	18.0	18.5
87.5°	42.8	45.5	25.4	14.8	9.0	5.8	4.8	2.6	2.6	2.6	2.6
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)