

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: P526934

Luminaire Tested: **GALN-SA1D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5262 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 65
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

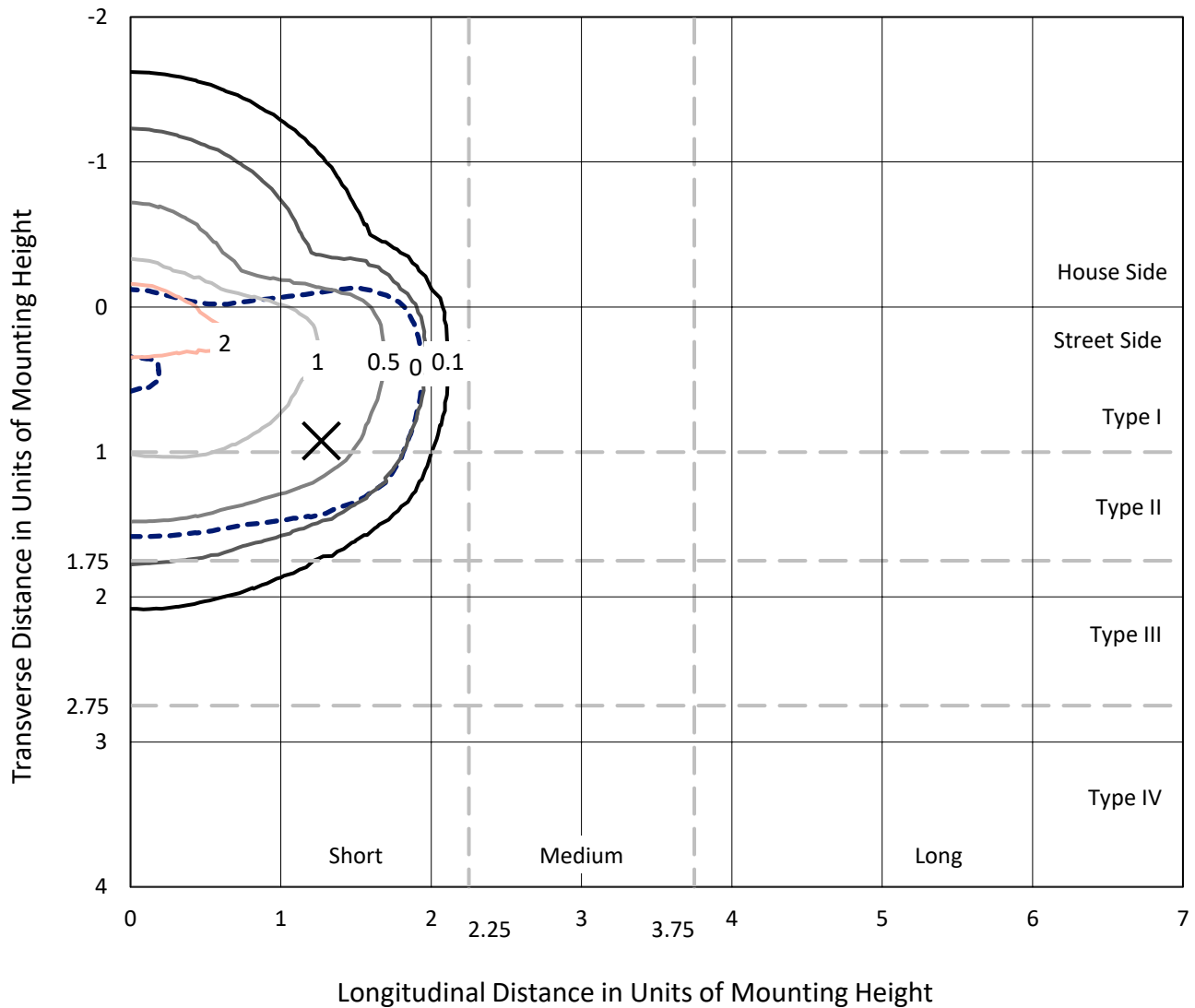


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Iso-Footcandle Lines of Horizontal Illumination

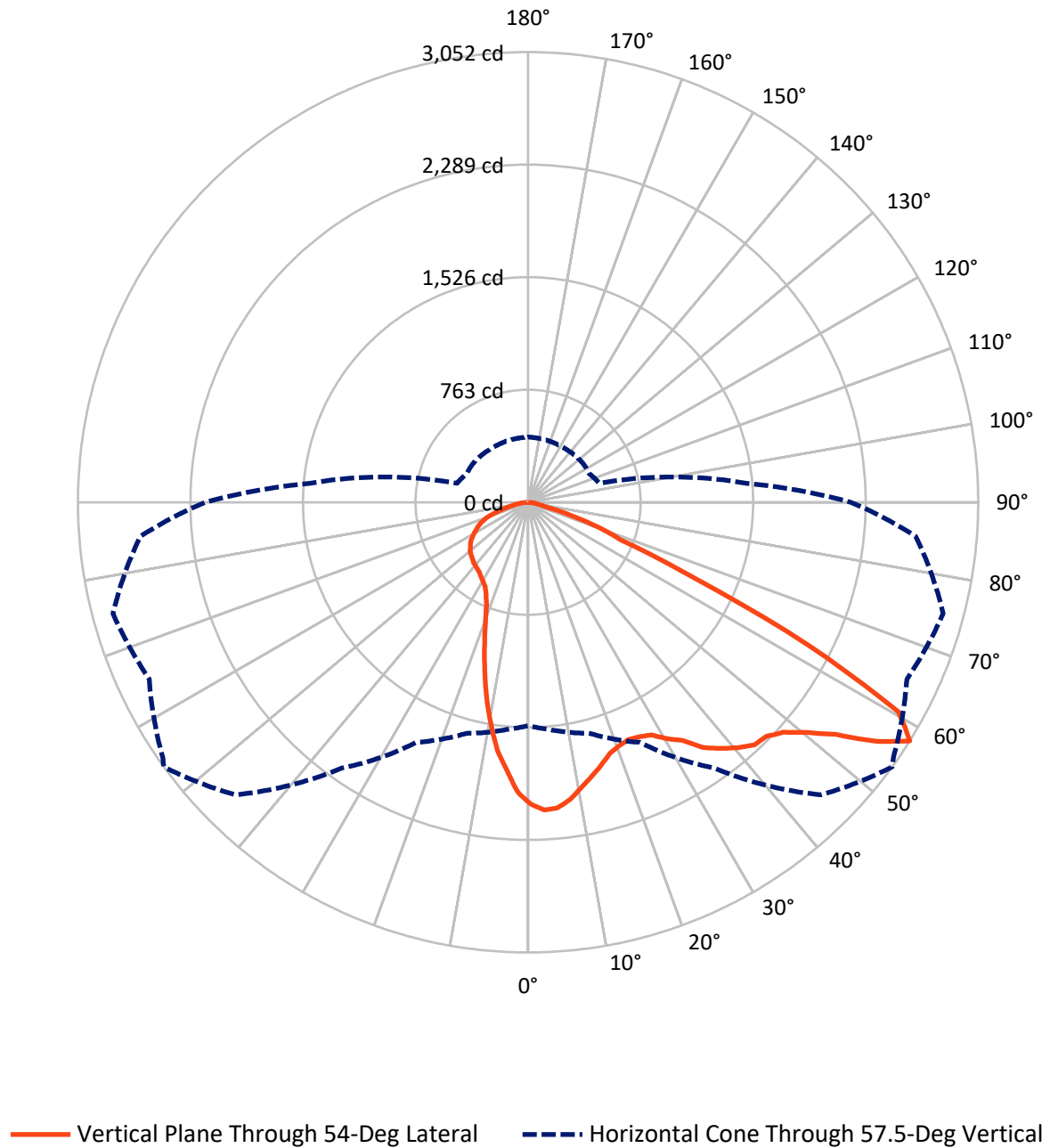
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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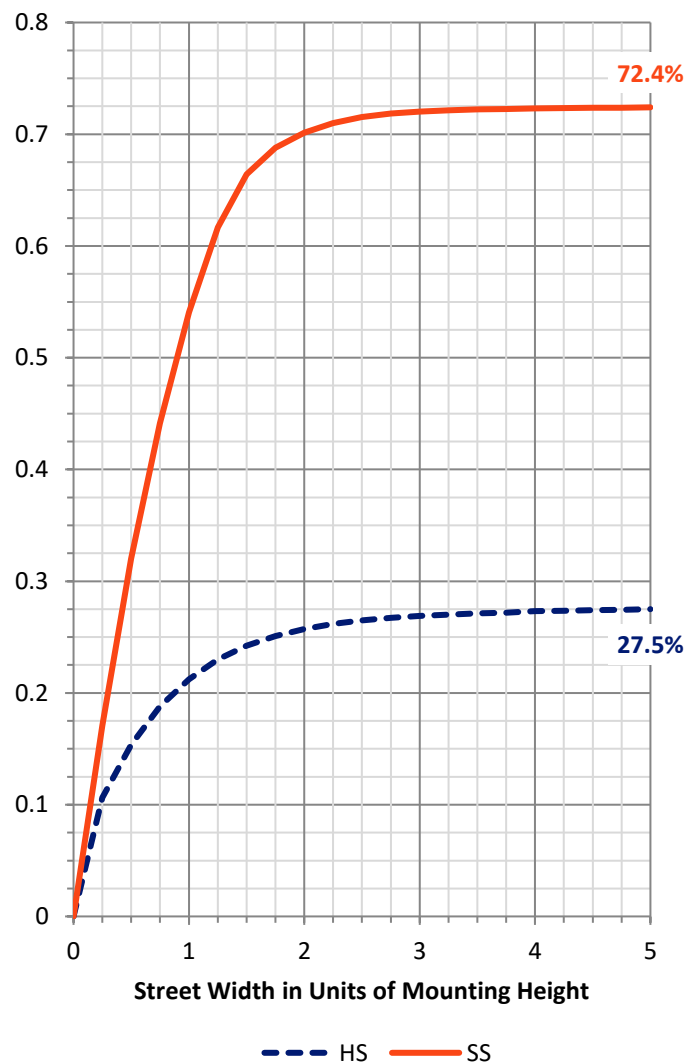
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1455.8	0.0	1455.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3806.2	0.0	3806.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	5262.0	0.0	5262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	3.4
10°-20°	408.4	7.8
20°-30°	573.8	10.9
30°-40°	802.2	15.2
40°-50°	1086.0	20.6
50°-60°	1322.8	25.1
60°-70°	689.0	13.1
70°-80°	176.5	3.4
80°-90°	26.9	0.5
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°	5262.0	100.0
0°-180°	5262.0	100.0

Coefficient of Utilization



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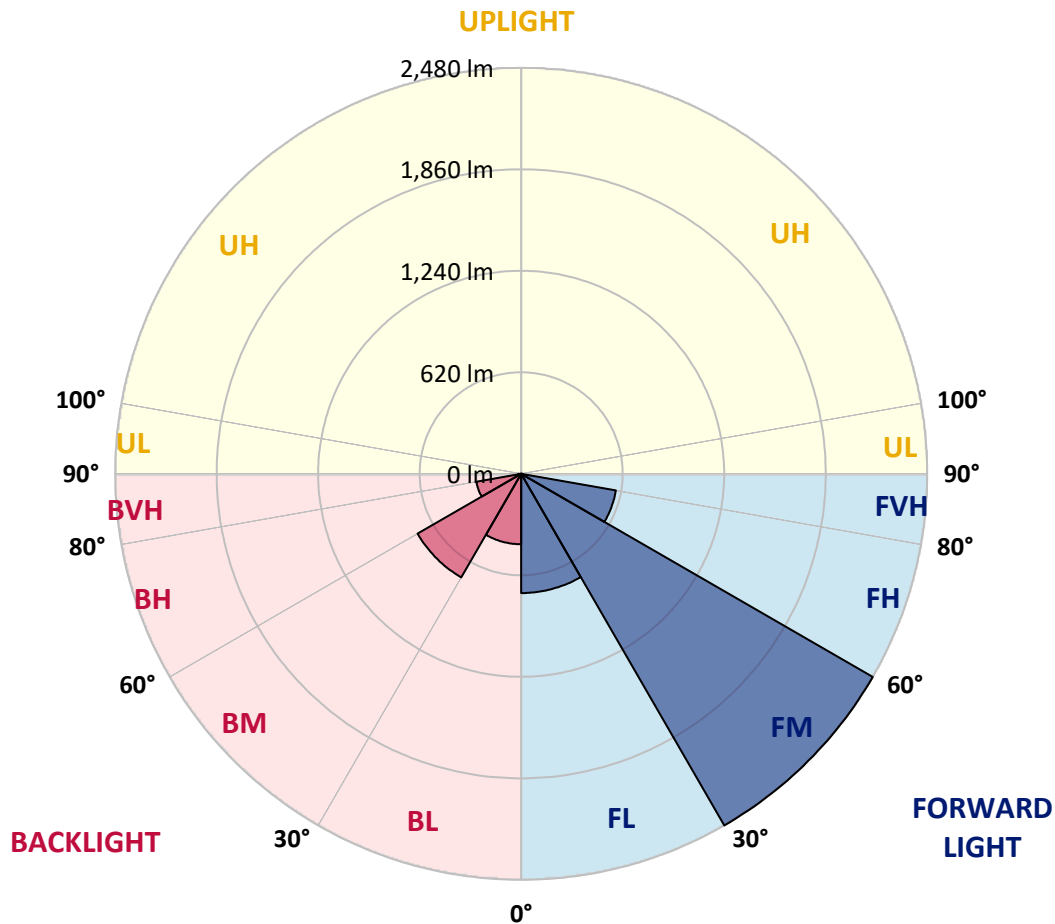
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	728.3	13.8			
FM	(30°-60°)	2480.3	47.1			
FH	(60°-80°)	587.4	11.2			G0/660
FVH	(80°-90°)	10.2	0.2			G1/100
BL	(0°-30°)	430.2	8.2	B1/500		
BM	(30°-60°)	730.6	13.9	B1/1000		
BH	(60°-80°)	278.1	5.3	B1/500		G1/500
BVH	(80°-90°)	16.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3
2.5°	2103.4	2095.3	2096.7	2107.5	2094.0	2088.6	2088.6	2062.2	2064.2	2046.0	2041.2
5°	2054.7	2035.8	2048.7	2064.9	2067.6	2073.0	2081.8	2075.0	2056.1	2036.5	2004.7
7.5°	1927.6	1944.5	1949.2	1960.7	1985.1	2007.4	2035.1	2016.2	2015.5	1995.9	1977.0
10°	1816.0	1805.9	1831.6	1848.5	1889.0	1926.2	1968.9	1966.8	1977.0	1954.6	1922.2
12.5°	1705.1	1697.0	1709.1	1747.7	1804.5	1858.6	1909.3	1890.4	1944.5	1940.4	1870.8
15°	1587.4	1593.5	1611.1	1646.9	1721.3	1786.2	1850.5	1851.2	1899.2	1915.4	1822.1
17.5°	1504.9	1498.1	1520.4	1573.9	1640.1	1717.9	1791.0	1805.9	1879.6	1889.0	1807.2
20°	1443.3	1452.8	1481.9	1508.9	1585.4	1679.4	1761.9	1767.3	1875.5	1901.2	1783.5
22.5°	1428.4	1423.0	1432.5	1476.5	1539.4	1641.5	1746.3	1766.6	1874.8	1897.2	1738.9
25°	1412.9	1430.5	1429.8	1473.8	1519.8	1611.1	1759.2	1781.5	1910.7	1918.1	1745.0
27.5°	1448.1	1446.0	1465.0	1468.4	1525.2	1619.2	1786.2	1803.1	1970.2	1964.1	1749.7
30°	1483.2	1473.1	1484.6	1524.5	1550.9	1665.8	1860.6	1859.3	2047.3	2043.3	1764.6
32.5°	1526.5	1521.8	1529.2	1564.4	1609.0	1728.1	1923.5	1963.4	2125.8	2151.5	1816.0
35°	1534.6	1554.2	1571.8	1619.2	1682.8	1828.8	2041.9	2075.0	2216.4	2296.9	1914.1
37.5°	1586.0	1593.5	1634.7	1718.6	1776.8	1963.4	2117.0	2137.9	2298.9	2390.2	2017.5
40°	1640.8	1649.6	1711.8	1799.8	1879.6	2051.4	2187.3	2194.1	2325.3	2461.9	2085.2
42.5°	1715.2	1723.3	1784.9	1895.1	2002.0	2126.4	2249.5	2257.0	2323.3	2544.4	2192.7
45°	1792.3	1811.9	1884.3	2009.4	2105.5	2214.4	2263.7	2294.2	2342.2	2618.1	2280.0
47.5°	1900.5	1918.8	1978.3	2100.7	2213.0	2291.5	2329.3	2359.1	2387.5	2682.4	2336.1
50°	2015.5	2018.9	2091.3	2202.2	2284.7	2378.7	2451.8	2461.9	2447.0	2756.8	2431.5
52.5°	2100.1	2110.9	2167.0	2275.2	2398.3	2514.0	2614.1	2624.9	2595.8	2784.5	2463.9
55°	1960.1	1954.0	2045.3	2189.3	2474.8	2715.5	2861.0	2869.1	2704.0	2870.4	2570.1
57.5°	1515.0	1544.1	1621.9	1795.7	2198.8	2804.8	3051.7	3022.6	2833.9	2913.7	2637.8
60°	1101.1	1094.3	1146.4	1262.7	1657.1	2417.3	2885.3	2915.1	2727.7	2626.3	2175.1
62.5°	896.8	887.4	891.4	895.5	1069.3	1604.3	2135.9	2135.2	2100.7	1887.7	1467.0
65°	716.9	739.2	741.3	771.7	794.0	958.4	1237.7	1304.0	1135.6	931.3	675.7
67.5°	540.4	532.3	559.3	667.6	709.5	691.9	675.7	683.1	485.6	350.3	330.1
70°	318.6	315.2	347.6	465.3	584.4	549.9	509.3	510.0	333.4	244.8	272.6
72.5°	174.5	173.8	180.6	236.0	332.1	344.9	305.7	315.2	198.8	198.2	213.0
75°	97.4	95.4	93.3	104.2	119.7	126.5	129.2	130.5	136.6	152.9	158.9
77.5°	35.8	34.5	34.5	39.9	50.7	63.6	80.5	81.8	96.7	110.9	117.0
80°	12.2	13.5	18.3	25.0	33.8	45.3	54.8	56.1	68.3	77.8	79.8
82.5°	7.4	8.1	12.2	17.6	24.3	31.8	40.6	41.3	50.7	56.8	59.5
85°	3.4	4.1	6.8	10.8	15.6	21.0	21.6	21.6	21.0	21.6	20.3
87.5°	0.0	0.0	1.4	1.4	1.4	2.0	2.7	2.0	3.4	4.1	4.1
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°	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3
2.5°	2027.0	2019.6	1996.6	1976.3	1970.2	1943.2	1903.2	1908.0	1878.9	1892.4	1878.2
5°	1999.3	1974.3	1915.4	1890.4	1824.8	1795.0	1774.7	1724.0	1700.3	1695.6	1675.3
7.5°	1928.3	1912.7	1839.0	1771.4	1701.7	1642.2	1565.7	1513.7	1476.5	1466.3	1436.6
10°	1872.1	1837.6	1735.5	1632.7	1533.3	1429.8	1330.4	1252.6	1214.7	1170.8	1155.9
12.5°	1816.7	1764.6	1626.6	1494.7	1366.2	1235.7	1115.3	1020.6	938.1	918.5	911.7
15°	1782.2	1691.5	1529.2	1370.3	1187.7	1017.2	896.8	834.6	783.9	762.9	777.8
17.5°	1736.9	1631.4	1435.9	1224.2	1023.3	866.4	765.6	727.1	708.8	710.8	704.8
20°	1680.1	1574.5	1313.5	1091.6	876.5	751.4	693.9	679.7	682.4	687.2	685.1
22.5°	1639.5	1505.6	1224.9	956.4	757.5	687.8	664.2	654.0	662.8	666.9	663.5
25°	1608.4	1446.7	1117.3	836.6	688.5	652.0	641.2	640.5	654.0	659.4	656.1
27.5°	1580.0	1391.9	1010.5	745.3	642.5	624.3	620.9	629.0	637.8	643.2	647.9
30°	1563.0	1350.0	910.4	668.9	619.5	610.7	604.7	612.1	616.8	622.2	619.5
32.5°	1579.3	1320.2	813.6	625.6	600.6	591.8	599.9	595.2	603.3	608.0	600.6
35°	1630.0	1293.9	744.7	602.6	579.0	582.3	583.7	581.7	585.0	581.0	589.8
37.5°	1680.1	1284.4	681.1	583.0	568.8	568.8	567.5	563.4	570.2	568.8	572.9
40°	1743.6	1290.5	627.0	562.0	559.3	558.0	552.6	551.9	549.2	549.9	551.2
42.5°	1799.1	1304.0	595.9	548.5	550.5	553.3	543.1	535.0	538.4	531.6	531.6
45°	1857.9	1316.2	568.1	539.1	537.0	536.3	528.2	523.5	520.8	521.5	527.6
47.5°	1950.6	1333.8	547.2	526.2	527.6	517.4	515.4	509.3	512.0	516.1	516.7
50°	2016.2	1371.0	530.9	511.3	516.1	509.3	497.1	494.4	494.4	501.2	499.8
52.5°	2062.2	1423.0	515.4	495.1	497.1	491.7	487.6	481.6	477.5	487.0	491.7
55°	2202.9	1509.6	511.3	481.6	480.9	475.5	468.0	461.9	459.9	461.3	470.7
57.5°	2189.3	1482.6	498.5	457.9	456.5	449.1	441.7	439.6	439.0	440.3	443.0
60°	1777.4	1095.0	445.0	430.8	428.8	427.5	420.0	411.9	407.8	411.9	408.5
62.5°	1176.2	733.2	392.3	398.4	399.7	396.3	384.2	376.0	377.4	382.1	374.7
65°	577.6	430.8	355.8	372.0	373.3	363.9	352.4	342.9	338.2	342.2	338.9
67.5°	330.1	329.4	326.0	342.9	342.2	332.8	314.5	306.4	298.3	299.6	297.6
70°	280.0	285.4	292.2	302.3	301.7	290.8	269.2	263.1	251.6	250.2	246.9
72.5°	220.5	230.0	244.8	252.3	246.2	232.7	218.5	208.3	198.2	192.1	194.1
75°	163.7	177.2	185.3	190.1	180.6	173.1	161.6	149.5	137.3	131.9	129.9
77.5°	119.0	123.1	130.5	133.9	127.8	120.4	113.6	101.5	90.0	82.5	80.5
80°	83.2	85.9	91.3	91.3	91.3	87.9	79.1	67.0	59.5	52.8	51.4
82.5°	58.2	60.9	66.3	63.6	62.9	58.8	53.4	44.0	35.8	31.1	29.8
85°	20.3	22.3	27.1	32.5	34.5	33.8	30.4	24.3	18.9	15.6	14.2
87.5°	4.7	4.7	5.4	4.7	4.7	5.4	4.7	4.7	4.7	3.4	2.7
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)