

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: P451187

Luminaire Tested: **GALN-SA2A-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451187
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-SA2A-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 9002 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

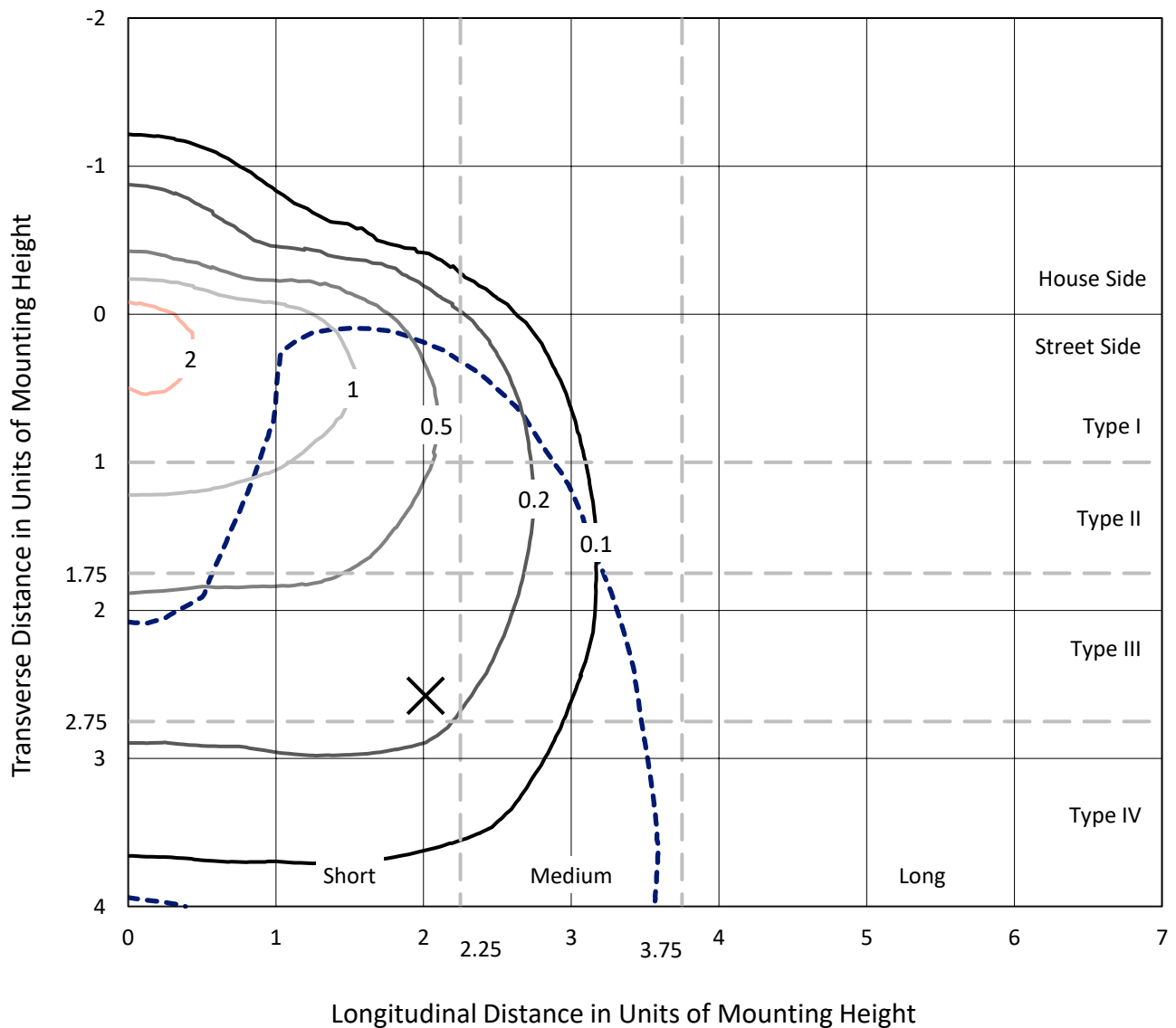
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

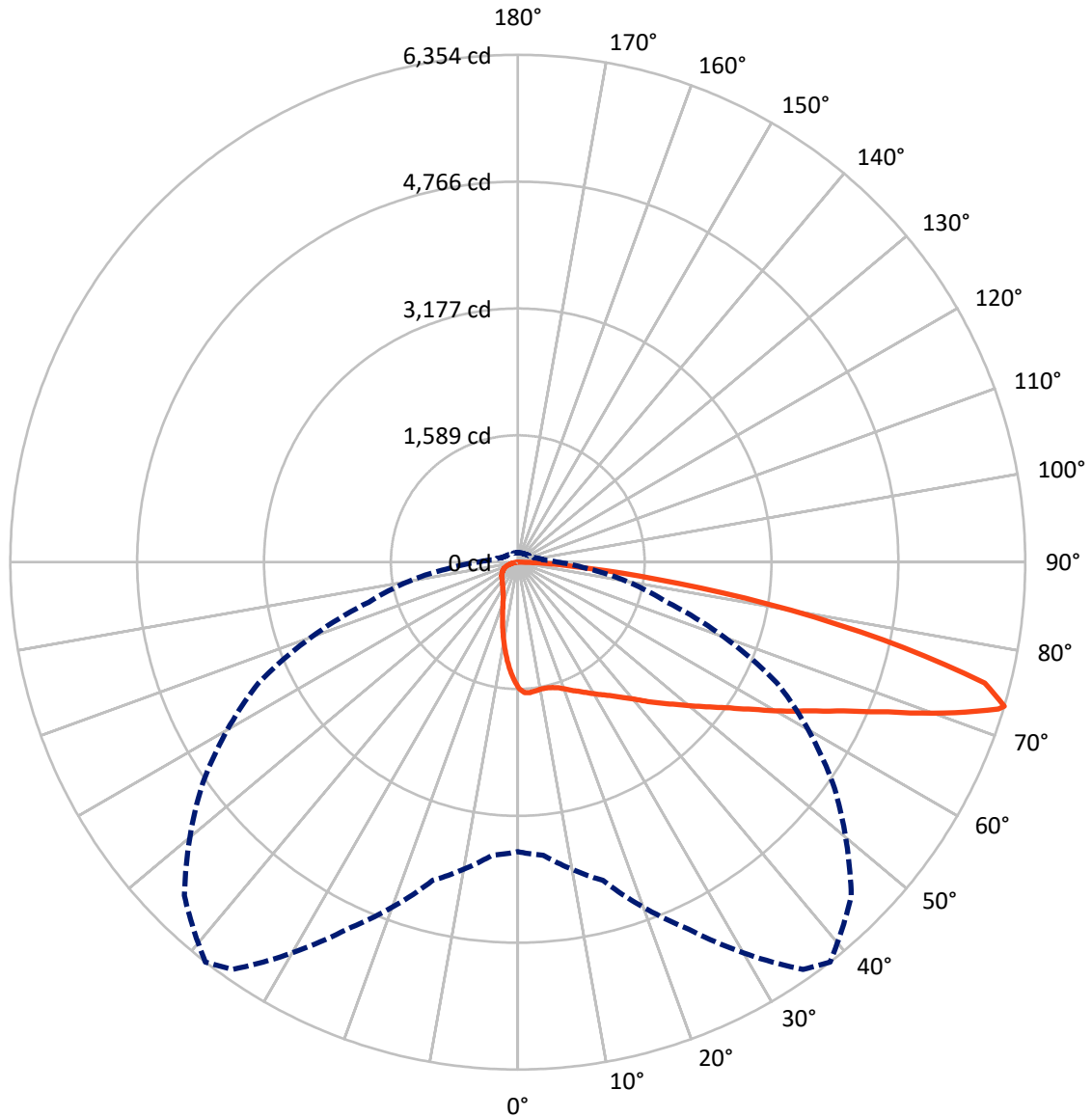
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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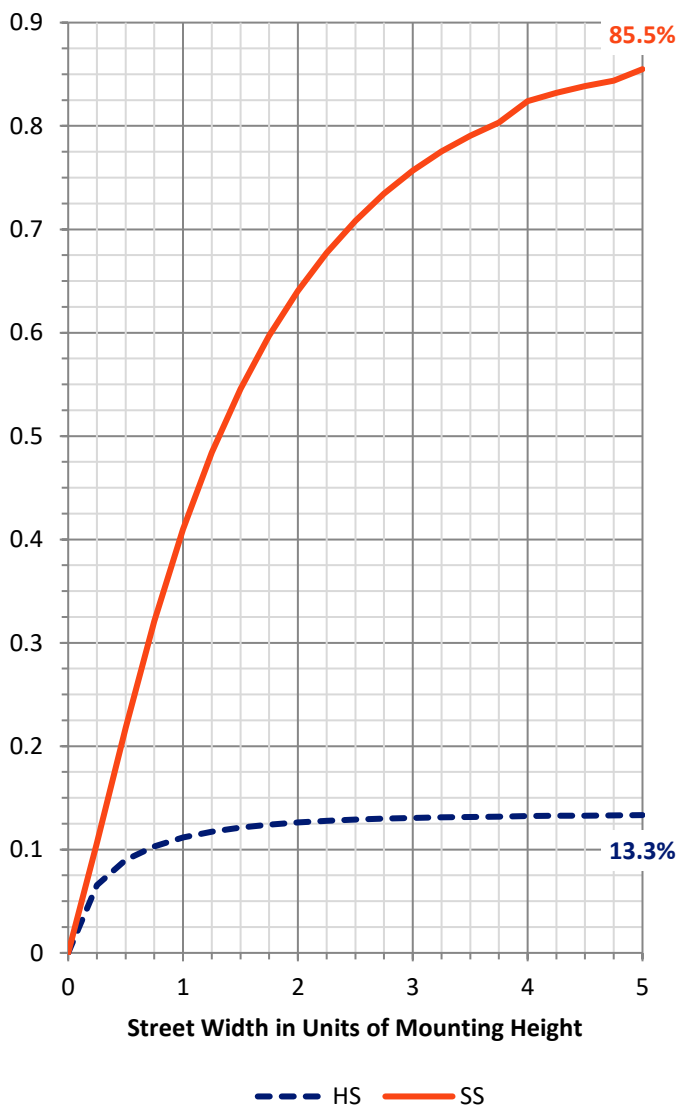
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.1	0.0	1210.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7791.9	0.0	7791.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	9002.0	0.0	9002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.5
10°-20°	354.0	3.9
20°-30°	551.2	6.1
30°-40°	808.5	9.0
40°-50°	1199.4	13.3
50°-60°	1699.3	18.9
60°-70°	2155.6	23.9
70°-80°	1794.4	19.9
80°-90°	301.5	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°	9002.0	100.0
0°-180°	9002.0	100.0

Coefficient of Utilization



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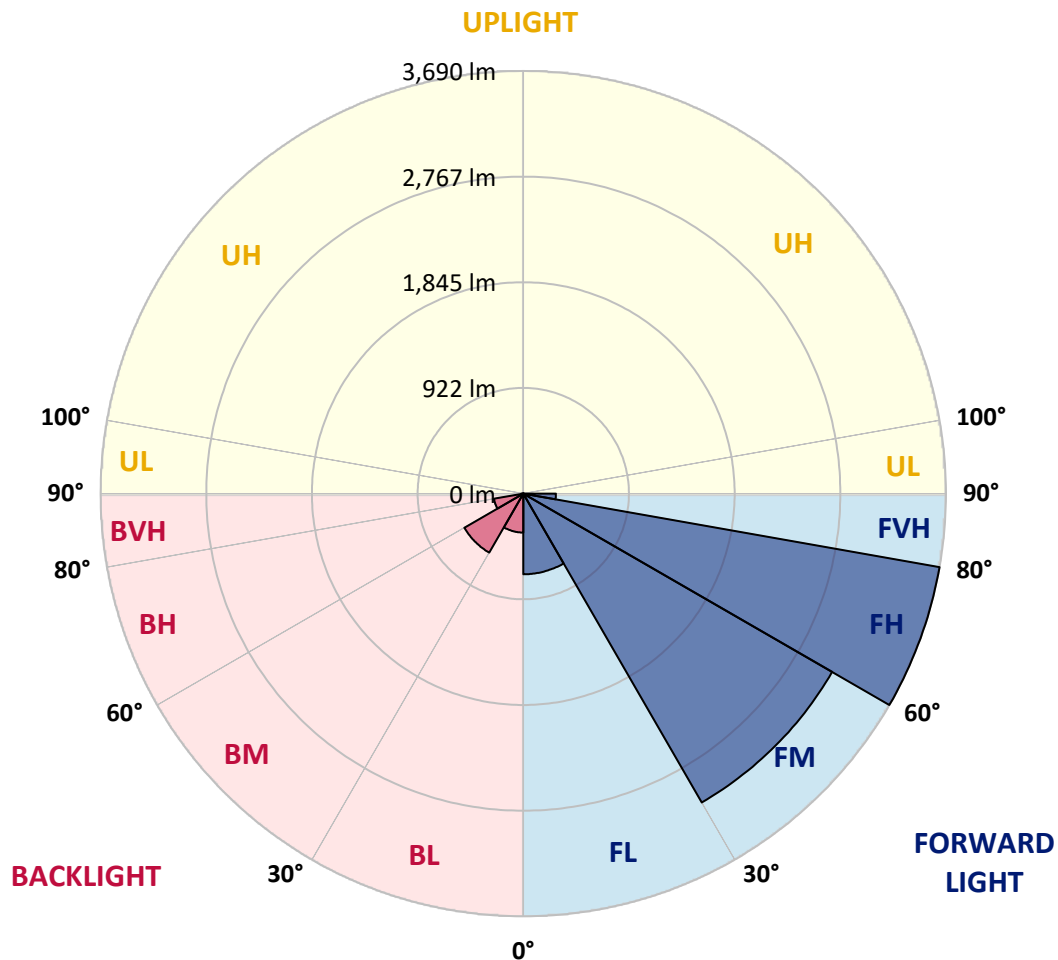
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.7	7.8			
FM (30°-60°)	3113.1	34.6			
FH (60°-80°)	3689.9	41.0			G2/5000
FVH (80°-90°)	285.1	3.2			G3/500
BL (0°-30°)	339.6	3.8	B1/500		
BM (30°-60°)	594.1	6.6	B1/1000		
BH (60°-80°)	260.1	2.9	B1/500		G1/500
BVH (80°-90°)	16.4	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°	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5
2.5°	1645.0	1653.2	1649.1	1643.5	1640.0	1636.4	1631.3	1616.6	1604.9	1592.2	1572.3
5°	1657.2	1662.3	1658.8	1651.7	1643.5	1640.0	1630.3	1611.0	1592.2	1570.8	1541.3
7.5°	1650.1	1652.2	1648.1	1639.5	1632.3	1625.7	1614.5	1593.2	1570.3	1544.4	1505.8
10°	1624.7	1632.3	1632.3	1625.2	1618.1	1614.5	1603.4	1583.0	1562.2	1532.7	1486.9
12.5°	1603.9	1612.0	1618.6	1616.6	1616.1	1616.1	1607.4	1592.2	1567.8	1539.8	1485.4
15°	1589.6	1599.3	1613.5	1621.7	1626.7	1628.3	1624.7	1611.5	1586.6	1554.0	1491.5
17.5°	1586.6	1598.3	1624.2	1642.0	1655.2	1654.7	1653.7	1635.4	1607.9	1574.4	1499.1
20°	1600.3	1615.6	1651.7	1679.6	1698.9	1695.4	1689.8	1665.9	1633.9	1596.2	1506.3
22.5°	1641.5	1657.2	1696.9	1727.4	1746.2	1746.2	1729.4	1697.9	1663.9	1621.7	1515.9
25°	1700.5	1717.7	1759.9	1790.9	1799.6	1793.0	1776.2	1738.1	1698.9	1658.3	1536.3
27.5°	1772.6	1793.5	1832.6	1858.6	1856.0	1850.9	1833.6	1784.8	1745.7	1708.6	1570.8
30°	1862.6	1877.9	1918.5	1924.6	1915.5	1914.5	1890.1	1841.3	1804.7	1776.2	1620.1
32.5°	1947.5	1961.2	1993.8	1996.3	1980.1	1982.1	1959.2	1914.5	1893.6	1883.5	1703.0
35°	2037.5	2044.6	2072.6	2069.5	2058.8	2057.3	2048.2	2005.5	2012.1	2030.4	1820.4
37.5°	2112.7	2127.0	2142.7	2145.3	2144.8	2149.8	2155.9	2135.6	2173.7	2231.2	1974.5
40°	2181.9	2194.1	2217.5	2225.6	2245.4	2255.6	2276.4	2276.9	2364.9	2459.4	2164.1
42.5°	2228.6	2249.5	2293.2	2307.9	2356.2	2386.7	2417.7	2450.8	2578.4	2699.9	2387.8
45°	2269.3	2296.8	2369.5	2415.2	2480.8	2517.9	2583.5	2652.6	2836.1	2995.2	2615.0
47.5°	2330.8	2355.2	2438.6	2519.4	2618.5	2661.2	2759.4	2862.6	3102.5	3276.9	2832.6
50°	2416.2	2431.0	2515.9	2647.5	2774.1	2829.0	2958.6	3107.6	3387.2	3554.9	3023.7
52.5°	2525.5	2531.6	2599.2	2774.6	2941.4	3009.5	3181.3	3355.2	3636.3	3796.4	3175.2
55°	2654.6	2644.5	2697.3	2909.3	3132.5	3221.5	3406.0	3605.8	3916.4	3991.6	3285.5
57.5°	2782.2	2766.5	2808.7	3073.0	3368.4	3475.6	3690.7	3864.0	4166.5	4174.1	3362.8
60°	2917.5	2905.8	2956.1	3265.2	3657.6	3784.7	3983.5	4131.9	4408.5	4301.2	3375.0
62.5°	3056.2	3037.4	3109.1	3481.2	3983.5	4098.9	4291.6	4416.6	4645.9	4348.5	3257.6
65°	3191.0	3182.3	3293.1	3737.9	4354.6	4485.7	4672.8	4757.7	4836.0	4277.3	2966.3
67.5°	3334.3	3351.6	3528.5	4080.6	4838.5	5003.3	5205.1	5125.3	4890.4	3940.3	2498.1
70°	3552.9	3564.1	3837.6	4529.5	5462.3	5661.1	5758.7	5255.9	4628.1	3300.3	1877.9
72.5°	3647.0	3696.3	4113.6	5000.7	6170.9	6292.4	5944.7	4964.6	3855.4	2241.9	986.7
73°	3626.1	3685.1	4126.3	5072.4	6226.4	6354.0	5905.1	4814.6	3583.9	1930.7	845.9
75°	3366.3	3439.0	3961.1	5012.4	6118.6	6042.3	5267.6	4103.5	2421.8	877.9	385.3
77.5°	2656.2	2677.0	3138.6	4047.5	4818.2	4676.9	3942.3	2564.7	989.3	326.4	218.6
80°	1332.4	1409.2	1769.1	2318.6	3222.0	3175.7	2488.4	1212.9	412.3	191.7	144.9
82.5°	641.0	695.4	861.7	1130.6	1780.3	1738.1	1232.3	662.9	261.8	111.8	85.4
85°	412.8	453.5	548.5	539.4	732.0	699.0	553.6	501.7	155.0	58.5	59.5
87.5°	272.5	298.4	357.9	286.2	266.4	241.0	244.5	282.6	30.5	22.4	8.1
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°	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5	1581.5
2.5°	1564.2	1557.6	1535.7	1514.4	1494.1	1474.7	1462.0	1445.3	1434.1	1437.1	1441.7
5°	1525.1	1510.3	1471.7	1434.1	1398.5	1356.3	1322.2	1294.8	1273.9	1266.3	1264.8
7.5°	1483.9	1459.0	1403.6	1339.0	1278.5	1226.2	1165.7	1135.7	1100.6	1088.4	1084.3
10°	1459.0	1425.4	1347.7	1257.7	1166.7	1079.8	1014.2	960.8	912.5	903.4	898.8
12.5°	1451.9	1407.6	1302.9	1187.0	1066.0	959.3	862.2	792.0	745.3	734.6	718.8
15°	1447.8	1392.9	1261.2	1115.8	962.3	832.2	730.0	648.2	605.5	577.0	577.5
17.5°	1444.2	1376.1	1214.5	1038.1	872.8	722.9	610.0	536.3	497.2	481.9	480.4
20°	1439.2	1356.3	1160.6	956.2	770.7	623.2	521.1	466.2	439.7	427.0	426.5
22.5°	1437.1	1337.0	1107.7	872.8	680.2	546.5	462.1	423.5	406.7	398.0	398.0
25°	1442.2	1323.3	1052.3	793.5	599.9	480.9	421.4	395.0	385.3	380.8	379.2
27.5°	1458.0	1317.2	997.4	714.2	526.1	436.2	394.0	375.7	368.6	365.0	365.5
30°	1488.0	1316.6	943.5	636.0	471.2	402.1	372.1	359.4	353.8	351.8	351.3
32.5°	1536.3	1327.8	890.6	571.4	425.0	373.6	351.8	342.6	340.1	338.6	338.1
35°	1618.1	1359.3	838.3	512.4	389.4	348.2	332.5	327.9	324.3	325.9	326.4
37.5°	1728.4	1413.7	788.5	466.2	362.5	329.4	316.2	312.1	310.1	311.6	313.1
40°	1876.3	1492.0	746.8	429.1	343.1	313.7	302.0	298.4	296.4	298.9	299.4
42.5°	2039.5	1582.5	712.2	400.1	327.4	300.4	289.3	285.2	283.7	285.2	285.7
45°	2207.3	1687.7	694.4	379.2	314.2	290.8	279.1	274.5	271.0	269.9	271.5
47.5°	2372.5	1779.2	693.9	366.5	303.5	282.1	269.4	264.3	259.8	257.2	256.7
50°	2507.2	1851.9	706.1	360.9	294.3	272.5	259.8	254.7	248.6	243.5	244.5
52.5°	2608.9	1899.2	711.7	358.4	289.3	262.3	249.6	245.0	237.9	231.3	231.3
55°	2674.5	1910.4	698.0	355.8	285.2	251.6	237.9	233.8	226.7	220.1	220.1
57.5°	2696.8	1875.8	648.7	349.7	281.1	242.5	226.2	222.7	217.1	210.5	209.4
60°	2645.0	1758.9	562.2	331.4	273.0	232.8	213.5	212.0	210.0	204.4	203.9
62.5°	2445.2	1510.8	468.2	307.6	259.3	222.7	201.8	204.4	205.9	202.8	202.3
65°	2112.7	1226.7	400.1	274.5	241.0	208.4	189.1	195.7	199.8	199.8	198.8
67.5°	1713.7	942.0	337.0	246.0	218.1	189.1	174.9	180.0	183.0	182.0	184.5
70°	1218.0	638.0	274.5	213.5	189.1	167.2	156.6	156.6	154.5	153.5	153.5
72.5°	590.7	364.5	222.7	178.4	161.1	142.8	134.2	130.6	126.6	126.1	123.5
73°	493.6	326.9	212.5	171.8	154.5	139.3	129.6	124.0	121.5	119.5	119.0
75°	300.4	248.1	177.4	144.9	131.7	120.0	111.3	106.2	103.7	102.2	101.7
77.5°	197.8	185.0	137.8	110.8	100.7	93.5	90.0	84.9	83.4	81.3	81.3
80°	147.4	141.3	98.6	78.3	72.2	66.1	65.1	64.1	60.0	57.4	56.4
82.5°	95.1	100.7	67.1	52.4	45.8	40.7	41.2	42.7	38.6	35.1	34.1
85°	67.6	72.7	40.7	23.9	19.3	16.8	18.8	16.8	17.3	13.7	11.2
87.5°	11.2	19.3	7.1	3.1	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)