

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: P647827

Luminaire Tested: **GALN-SA3A-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8793.1 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

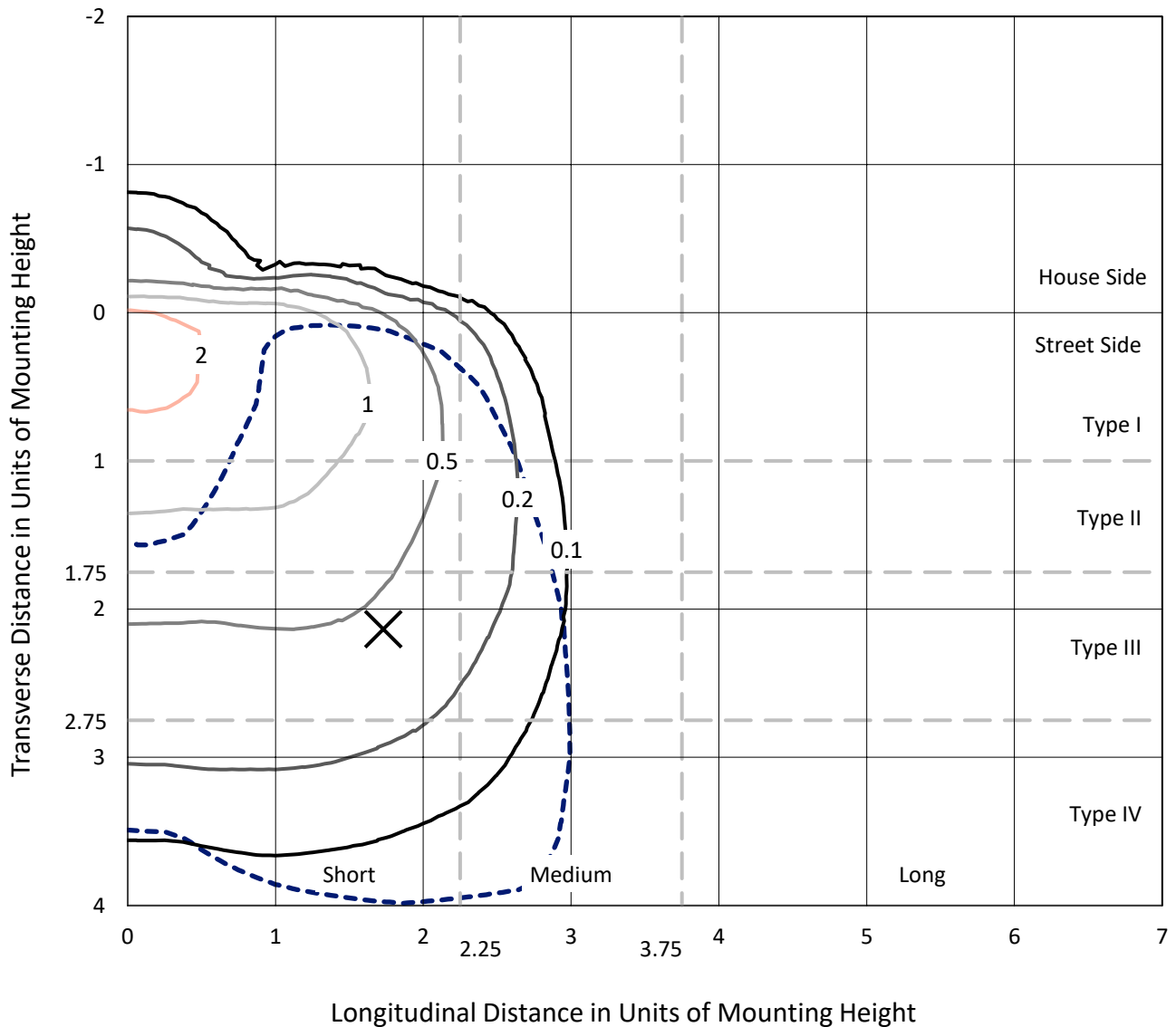
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

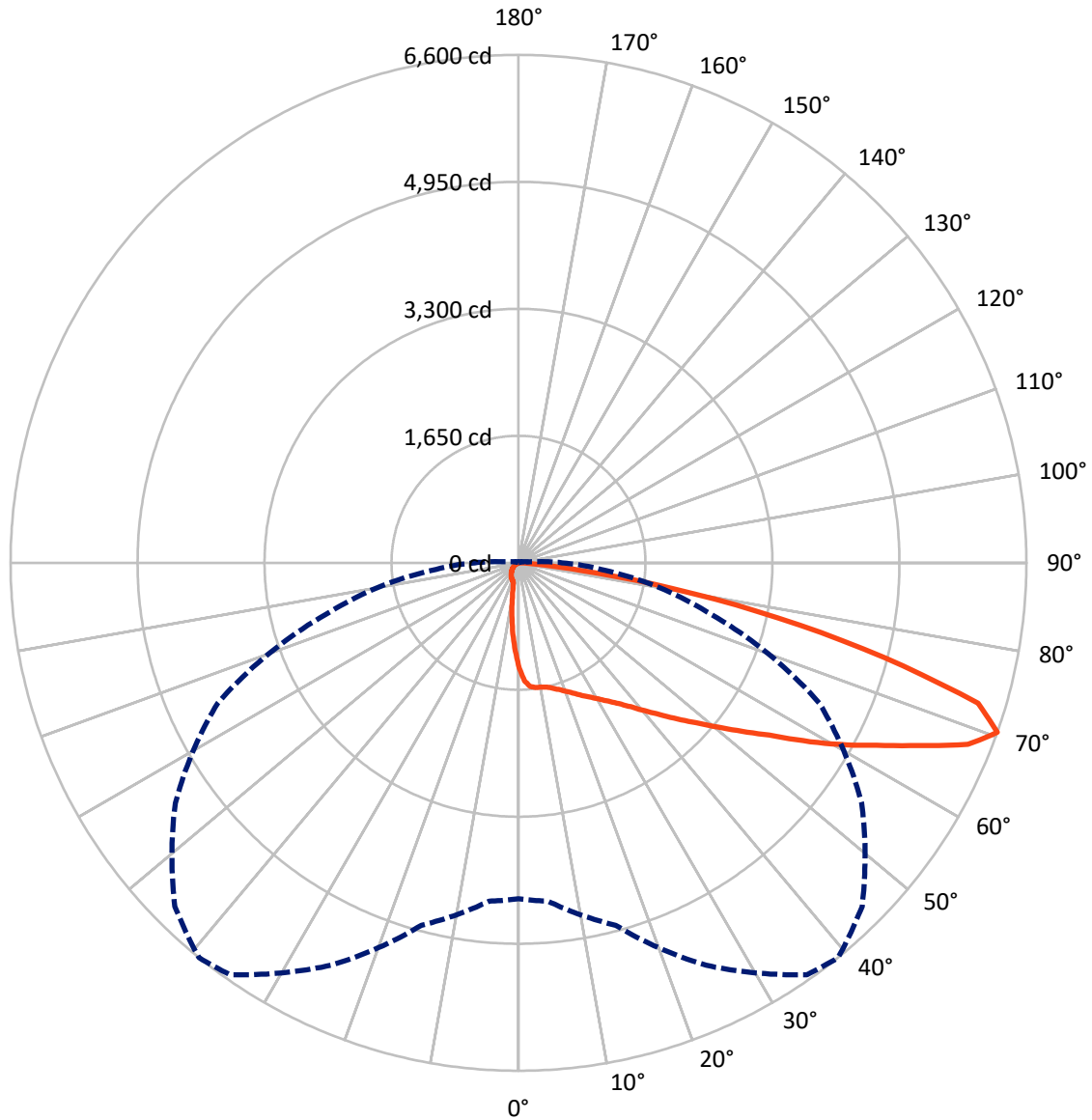
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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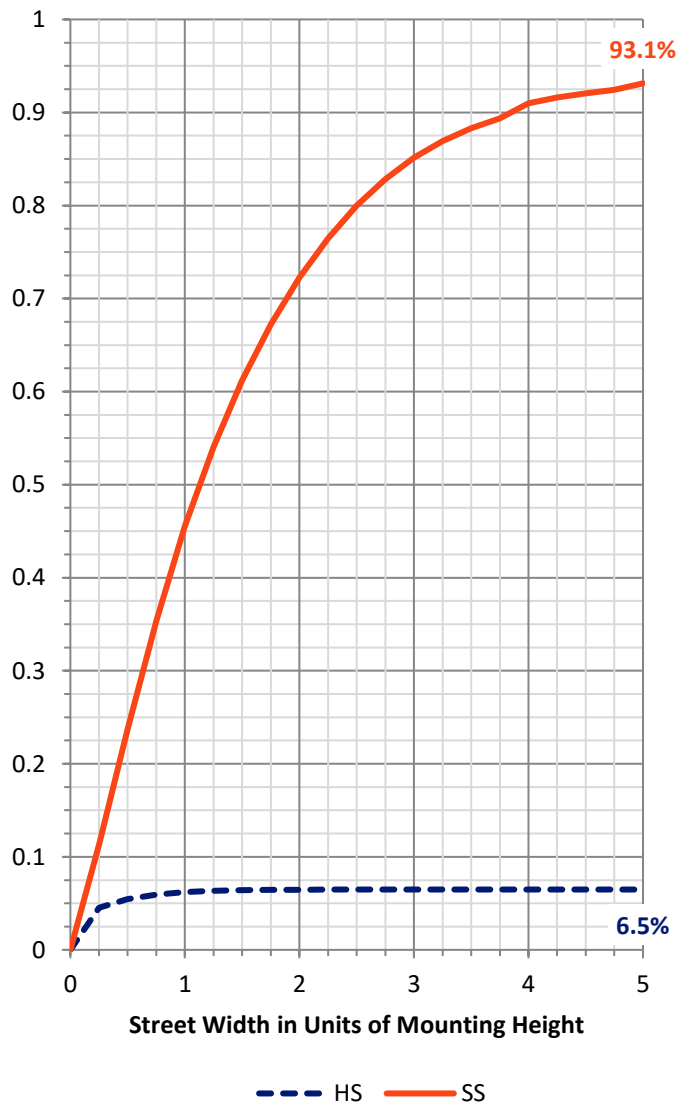
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	573.3	0.0	573.3
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	8219.8	0.0	8219.8
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	8793.1	0.0	8793.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	1.3
10°-20°	304.1	3.5
20°-30°	509.5	5.8
30°-40°	790.1	9.0
40°-50°	1252.1	14.2
50°-60°	1835.4	20.9
60°-70°	2352.6	26.8
70°-80°	1478.3	16.8
80°-90°	154.0	1.8
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°	8793.1	100.0
0°-180°	8793.1	100.0

**Coefficient of Utilization**



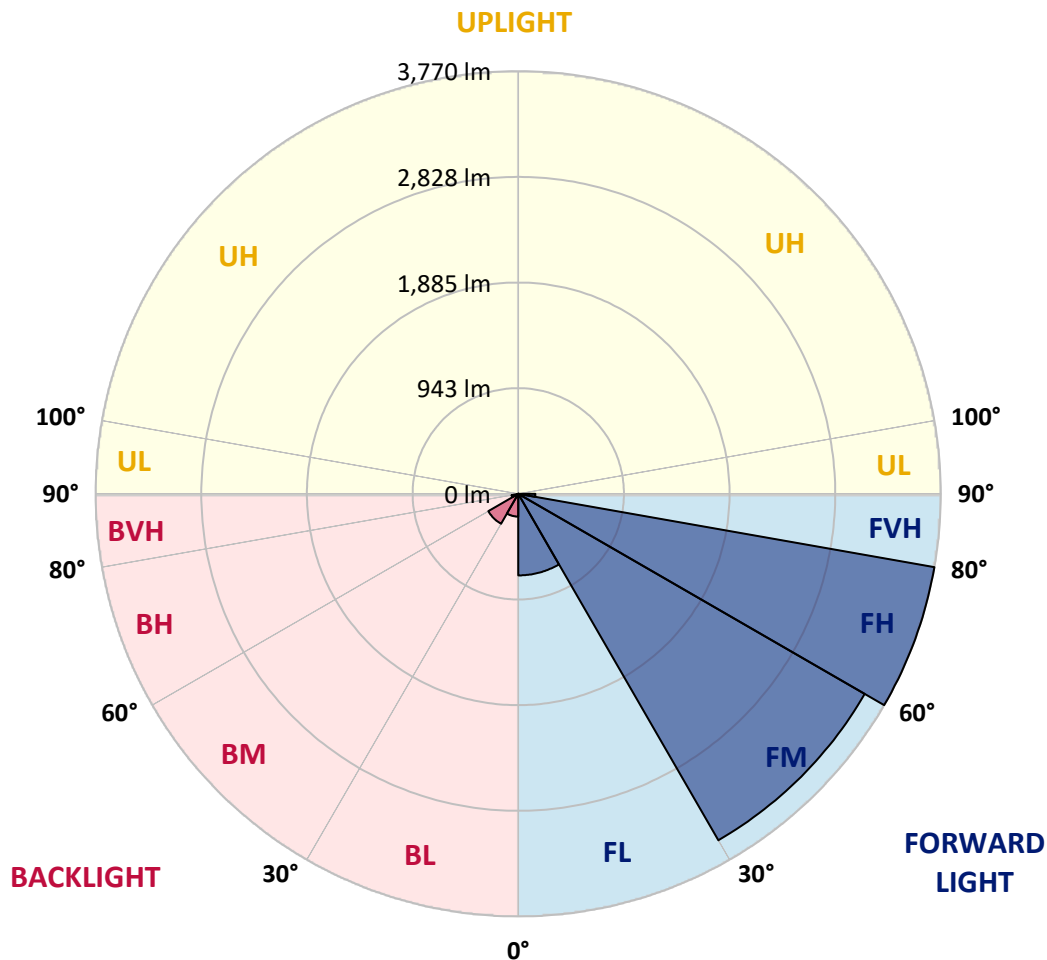
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.6	8.3			
FM (30°-60°)	3569.1	40.6			
FH (60°-80°)	3770.2	42.9			G2/5000
FVH (80°-90°)	152.9	1.7			G2/225
BL (0°-30°)	203.0	2.3	B1/500		
BM (30°-60°)	308.6	3.5	B1/1000		
BH (60°-80°)	60.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1
2.5°	1585.3	1580.0	1572.9	1564.7	1541.0	1536.9	1522.7	1492.6	1456.5	1426.9	1386.2
5°	1660.4	1663.3	1658.0	1643.2	1626.1	1616.0	1598.3	1551.7	1505.0	1445.3	1378.5
7.5°	1677.5	1683.4	1677.0	1662.7	1646.2	1635.5	1621.4	1581.2	1526.9	1458.9	1367.3
10°	1675.7	1682.8	1678.7	1665.7	1652.1	1642.0	1626.7	1594.8	1551.0	1479.6	1370.9
12.5°	1672.8	1682.2	1681.6	1675.2	1664.0	1656.2	1646.8	1618.4	1577.7	1509.7	1390.4
15°	1664.5	1676.3	1687.0	1692.3	1692.8	1692.8	1681.0	1651.0	1611.9	1549.3	1415.7
17.5°	1668.0	1681.6	1708.3	1723.6	1734.3	1733.0	1720.6	1688.1	1645.0	1590.0	1442.4
20°	1689.9	1708.3	1745.5	1776.2	1786.8	1783.3	1766.8	1728.9	1679.8	1624.9	1468.4
22.5°	1743.7	1760.3	1806.9	1842.9	1850.6	1841.1	1817.6	1766.1	1721.8	1662.7	1499.7
25°	1824.1	1843.6	1886.7	1913.9	1913.9	1908.6	1875.4	1815.2	1769.1	1715.3	1540.4
27.5°	1921.6	1938.1	1980.6	2004.9	1990.7	1975.3	1942.2	1869.6	1825.3	1781.5	1589.5
30°	2020.2	2030.9	2075.7	2086.4	2071.7	2052.2	2016.7	1944.0	1905.0	1871.3	1660.4
32.5°	2113.6	2136.7	2173.8	2171.5	2151.4	2142.0	2109.5	2032.0	2010.2	2006.6	1759.6
35°	2207.0	2224.7	2257.8	2266.0	2248.3	2246.5	2222.9	2165.5	2166.2	2189.2	1914.4
37.5°	2287.3	2303.3	2342.3	2360.6	2364.1	2373.0	2363.5	2325.7	2379.5	2442.7	2119.5
40°	2354.6	2377.1	2426.8	2458.6	2495.3	2527.8	2529.6	2537.9	2646.0	2754.7	2387.1
42.5°	2407.3	2438.6	2510.6	2569.7	2653.7	2695.0	2728.1	2773.6	2955.6	3118.1	2702.7
45°	2475.8	2511.9	2601.7	2694.4	2825.6	2893.6	2939.6	3061.4	3319.5	3541.1	3026.5
47.5°	2589.2	2608.2	2699.7	2835.0	3007.6	3104.5	3194.3	3378.6	3710.2	3908.7	3296.0
50°	2735.2	2747.6	2816.8	3004.6	3228.0	3355.6	3519.3	3736.2	4115.4	4213.6	3448.4
52.5°	2896.5	2900.6	2952.6	3191.4	3475.0	3635.7	3818.8	4086.6	4445.8	4431.0	3549.4
55°	3083.8	3077.9	3122.2	3394.0	3767.5	3951.3	4164.5	4445.2	4732.4	4585.2	3607.4
57.5°	3298.3	3282.3	3325.5	3662.9	4142.1	4361.9	4578.7	4754.8	4954.5	4714.6	3635.1
60°	3522.8	3490.9	3542.3	3964.8	4583.4	4792.0	4972.3	5019.5	5188.5	4817.4	3587.2
62.5°	3701.9	3702.5	3798.2	4286.2	5037.3	5219.9	5315.6	5358.1	5390.0	4795.0	3335.5
65°	3981.3	3990.8	4143.9	4732.4	5562.5	5720.9	5786.5	5648.2	5398.9	4516.1	2957.4
67.5°	4269.7	4299.8	4579.9	5346.9	6169.4	6297.0	6212.5	5704.4	5157.8	3879.7	2242.4
70°	4363.7	4413.3	4874.7	5769.9	6533.4	6599.5	6313.6	5442.6	4311.7	2594.0	1128.6
72.5°	3998.5	4078.9	4705.2	5615.8	6301.1	6243.8	5648.8	4564.6	2741.1	985.0	344.5
75°	2819.7	2855.1	3910.5	4658.5	5068.0	4905.5	4296.9	2942.6	1127.4	276.6	118.2
77.5°	1455.9	1438.8	2325.7	3090.9	3614.4	3446.0	2813.8	1523.3	427.2	115.3	73.3
80°	752.8	765.2	1006.2	1619.6	2206.3	2030.2	1500.2	706.1	227.5	63.8	56.1
82.5°	421.9	395.9	578.5	707.3	1031.7	808.9	575.5	499.9	99.3	38.4	53.2
85°	76.8	80.3	317.3	382.3	358.1	227.5	185.6	333.9	29.0	21.3	37.2
87.5°	1.2	1.2	61.5	109.9	69.7	31.9	58.5	47.8	5.9	8.3	6.5
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°	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1	1372.1
2.5°	1365.6	1343.1	1301.1	1259.8	1207.2	1164.0	1135.1	1105.0	1074.2	1076.5	1083.7
5°	1341.9	1302.9	1220.1	1132.7	1048.8	973.2	898.7	831.9	804.8	779.9	781.1
7.5°	1318.3	1263.3	1142.2	1005.1	878.1	749.3	655.8	579.0	538.3	507.5	498.7
10°	1307.6	1234.9	1070.7	882.2	702.0	561.3	441.4	378.7	330.3	314.9	319.1
12.5°	1312.3	1220.8	1006.2	771.1	556.6	391.2	307.2	275.4	264.7	262.9	261.8
15°	1321.2	1210.7	943.0	648.2	408.9	290.7	258.2	252.3	251.1	249.9	250.6
17.5°	1333.1	1201.8	875.7	533.0	313.7	254.1	244.6	241.6	241.1	241.1	241.1
20°	1344.9	1191.8	800.6	430.2	261.8	239.9	234.0	232.2	231.6	231.6	231.1
22.5°	1358.4	1183.0	724.4	338.0	241.1	229.9	224.6	223.4	222.8	222.1	222.1
25°	1377.9	1171.7	643.5	276.6	228.1	220.4	215.1	213.9	213.3	210.9	211.6
27.5°	1403.9	1163.5	560.2	238.7	216.3	208.6	205.1	203.3	202.1	200.3	200.9
30°	1439.4	1156.3	471.5	218.1	202.6	196.1	192.6	191.4	190.3	188.5	188.5
32.5°	1500.9	1159.3	378.2	201.5	190.3	182.6	179.1	177.8	176.6	174.9	174.9
35°	1593.0	1176.5	302.6	187.3	175.5	167.8	164.3	164.3	162.5	160.1	159.6
37.5°	1743.7	1220.1	242.9	173.7	161.3	154.3	150.1	148.9	147.1	143.6	143.0
40°	1921.6	1288.1	204.4	160.1	148.3	141.3	137.7	134.1	129.4	125.8	125.3
42.5°	2144.9	1357.9	177.3	146.5	135.9	129.4	125.3	119.3	112.3	107.5	107.0
45°	2377.7	1421.7	158.9	134.1	124.1	118.8	114.0	104.6	95.8	89.8	89.3
47.5°	2551.4	1433.4	144.2	122.3	114.0	108.8	102.3	90.4	78.6	73.3	71.5
50°	2633.5	1376.1	128.8	110.5	104.0	98.1	89.8	76.2	63.2	56.7	55.5
52.5°	2662.5	1276.9	116.4	99.8	94.0	86.8	76.8	61.5	49.6	43.1	42.5
55°	2650.7	1151.6	105.2	89.8	82.1	73.8	63.8	49.0	36.6	31.3	30.1
57.5°	2588.7	992.1	94.0	79.8	70.3	62.0	50.8	36.6	24.8	20.1	19.5
60°	2421.4	774.6	82.7	68.5	59.7	50.8	40.2	26.0	15.3	11.2	11.2
62.5°	2139.0	575.0	72.1	57.3	50.2	40.8	28.3	16.5	8.3	5.9	5.3
65°	1787.4	424.2	60.3	48.5	42.0	31.9	20.1	10.0	4.1	1.8	1.2
67.5°	1247.3	261.8	50.2	39.6	34.3	23.0	12.4	4.1	1.8	0.0	0.0
70°	566.7	124.7	38.4	30.1	26.0	16.5	6.5	2.3	1.2	0.0	0.0
72.5°	176.1	65.6	27.2	21.8	17.7	10.6	3.5	1.8	1.2	0.0	0.0
75°	81.5	42.0	17.1	11.8	10.0	5.3	2.3	1.2	0.6	0.0	0.0
77.5°	60.8	32.5	10.0	6.5	5.3	3.5	1.8	1.2	0.6	0.0	0.0
80°	53.2	16.5	5.9	4.1	3.0	2.3	1.2	0.6	0.0	0.0	0.0
82.5°	47.8	8.3	3.5	2.3	1.8	1.2	0.6	0.6	0.0	0.0	0.0
85°	26.0	4.7	2.3	1.8	1.2	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	4.7	2.3	1.8	1.2	1.2	0.6	0.6	0.6	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)