

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: P451126

Luminaire Tested: **GALN-SA2A-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6362 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

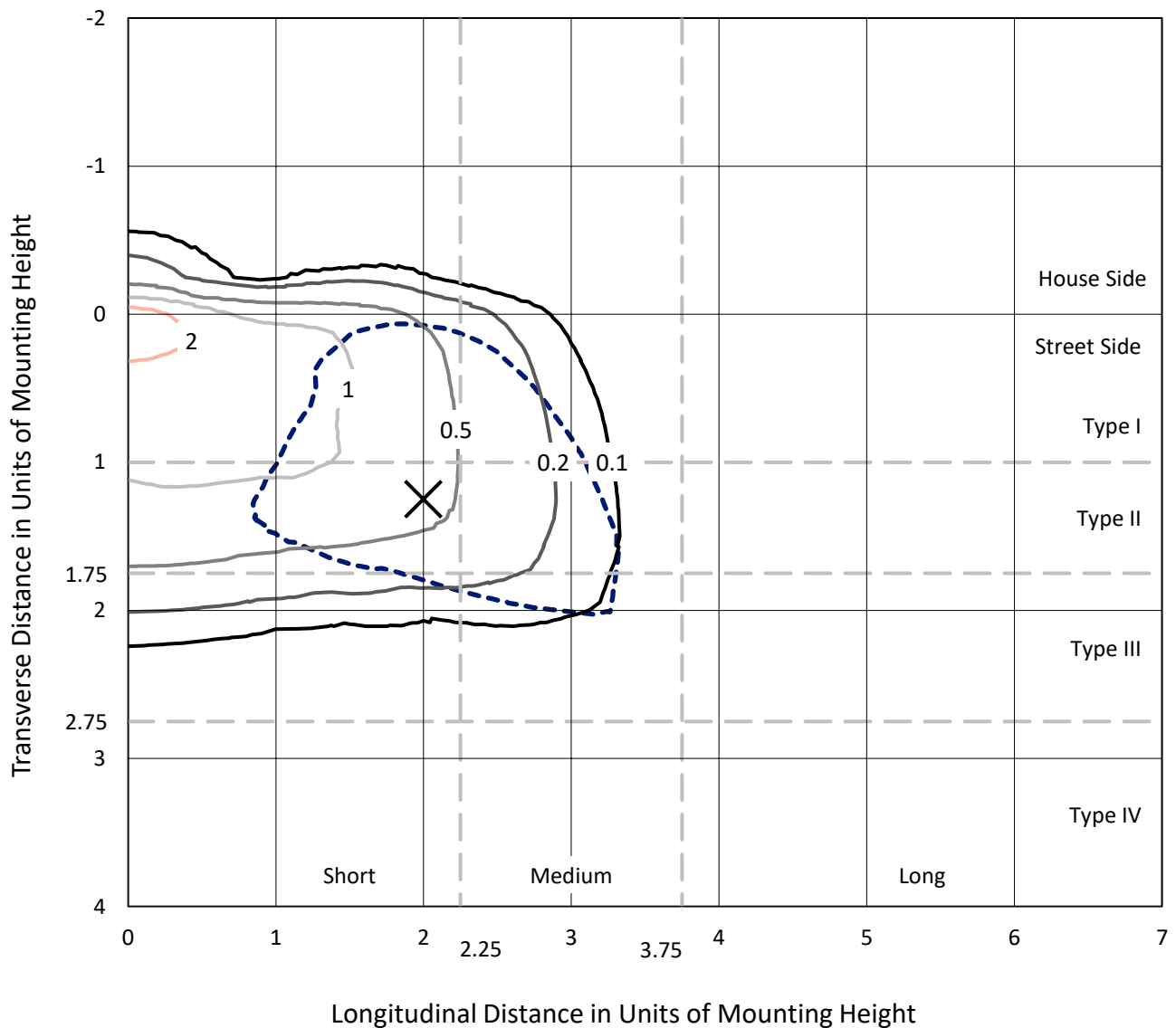
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

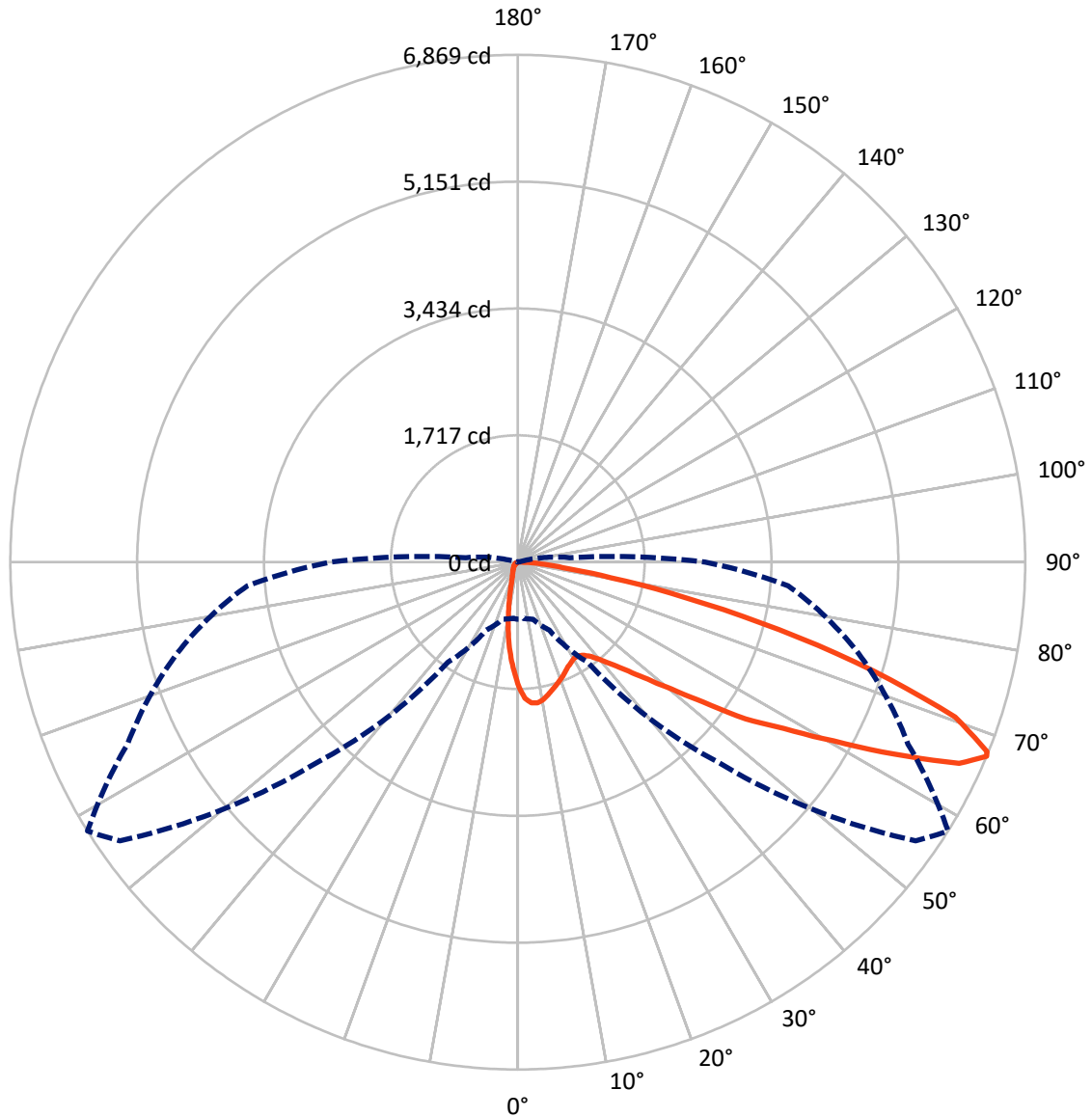
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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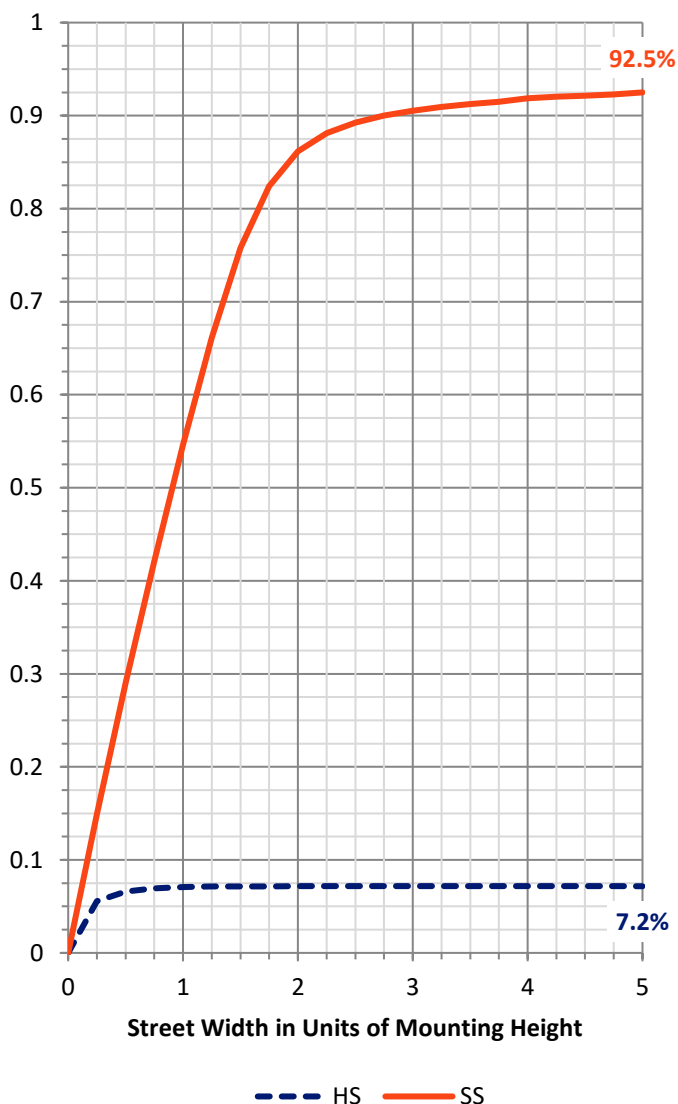
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.1	0.0	459.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5902.9	0.0	5902.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	6362.0	0.0	6362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	2.2
10°-20°	295.6	4.6
20°-30°	400.5	6.3
30°-40°	555.5	8.7
40°-50°	886.0	13.9
50°-60°	1531.5	24.1
60°-70°	1749.4	27.5
70°-80°	729.3	11.5
80°-90°	77.3	1.2
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°	6362.0	100.0
0°-180°	6362.0	100.0

Coefficient of Utilization



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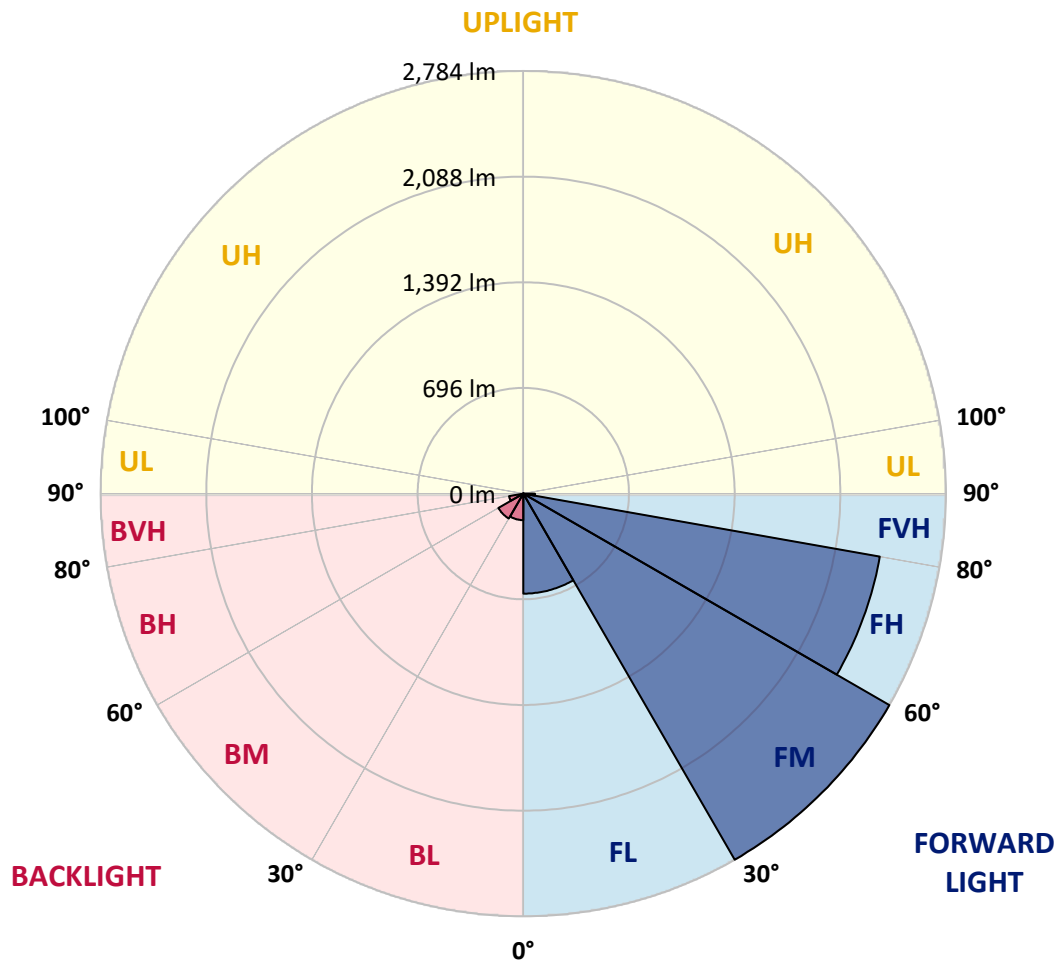
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.6	10.4			
FM (30°-60°)	2783.6	43.8			
FH (60°-80°)	2383.8	37.5			G2/5000
FVH (80°-90°)	76.8	1.2			G1/100
BL (0°-30°)	174.3	2.7	B1/500		
BM (30°-60°)	189.3	3.0	B0/220		
BH (60°-80°)	94.9	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5
2.5°	1957.3	1960.3	1949.2	1940.3	1917.4	1892.7	1860.0	1842.5	1812.8	1761.3	1704.4
5°	2003.2	2007.1	2005.4	2003.2	1994.3	1970.5	1928.8	1913.5	1869.7	1786.0	1683.1
7.5°	1901.2	1915.2	1916.9	1933.5	1949.2	1951.4	1935.6	1924.2	1883.8	1785.6	1645.3
10°	1766.0	1775.4	1789.0	1808.1	1845.9	1877.4	1892.7	1891.0	1867.6	1772.4	1601.1
12.5°	1629.5	1634.6	1655.5	1688.2	1734.5	1788.1	1828.9	1837.0	1837.4	1756.7	1564.1
15°	1512.2	1510.1	1526.2	1564.1	1629.1	1696.3	1769.4	1782.2	1802.6	1741.4	1529.6
17.5°	1411.9	1422.9	1425.5	1467.1	1527.1	1614.2	1707.3	1729.9	1770.7	1728.2	1501.1
20°	1349.8	1355.8	1361.3	1384.7	1438.7	1530.5	1649.1	1680.1	1740.9	1716.3	1469.3
22.5°	1331.5	1335.3	1330.7	1337.9	1376.2	1457.8	1585.8	1627.0	1712.4	1705.2	1443.3
25°	1345.6	1349.4	1338.3	1329.8	1343.0	1398.7	1524.5	1574.7	1689.5	1703.1	1423.8
27.5°	1379.6	1386.8	1371.5	1356.2	1348.5	1366.8	1476.5	1534.7	1673.8	1713.3	1414.8
30°	1432.7	1437.0	1425.5	1406.8	1389.3	1371.1	1451.4	1507.1	1669.5	1737.1	1414.0
32.5°	1490.5	1499.4	1493.1	1480.7	1458.2	1414.8	1458.6	1508.0	1679.7	1771.5	1424.6
35°	1561.9	1572.1	1578.1	1575.5	1546.6	1492.6	1504.6	1546.2	1706.9	1834.9	1453.5
37.5°	1632.1	1641.0	1674.6	1686.1	1660.6	1609.6	1593.8	1621.5	1766.9	1917.8	1505.8
40°	1712.4	1724.3	1771.5	1815.3	1803.0	1749.4	1720.5	1743.5	1858.7	2042.8	1604.9
42.5°	1789.4	1810.6	1882.5	1959.9	1971.3	1911.4	1892.3	1899.9	1994.7	2222.6	1743.1
45°	1898.6	1918.6	2011.3	2116.3	2170.3	2123.5	2104.0	2102.7	2181.4	2475.6	1967.1
47.5°	2056.4	2074.2	2183.5	2287.2	2383.3	2389.7	2352.7	2365.4	2416.0	2771.5	2241.7
50°	2249.8	2291.9	2363.7	2471.7	2600.1	2703.9	2715.3	2698.3	2741.7	3114.1	2571.6
52.5°	2530.8	2547.0	2612.9	2701.7	2852.2	3028.2	3164.7	3141.3	3127.7	3440.6	2904.9
55°	2740.4	2762.1	2864.6	2986.6	3207.2	3439.3	3735.2	3743.3	3571.6	3754.4	3231.0
57.5°	2677.1	2710.2	2865.4	3110.7	3595.8	4020.1	4240.3	4245.8	3982.2	4059.2	3599.2
60°	2351.8	2367.6	2589.9	2917.3	3628.9	4649.3	4956.6	4912.0	4400.1	4400.1	3924.4
62.5°	1667.8	1692.5	1872.7	2354.4	3277.4	4867.8	5814.6	5722.3	4975.8	4726.2	4118.3
65°	1065.8	1042.0	1161.5	1486.3	2441.5	4545.1	6561.5	6567.0	5517.4	4856.7	4012.4
67°	772.0	762.7	797.1	1016.1	1655.5	3820.7	6577.3	6868.5	5828.6	4774.3	3674.0
67.5°	706.1	713.4	738.5	916.6	1504.1	3476.7	6505.8	6850.6	5898.7	4724.5	3551.6
70°	535.2	522.9	550.1	648.3	901.7	2193.3	5596.5	6283.1	5811.6	4230.9	2837.8
72.5°	393.7	392.4	430.2	530.1	694.2	1168.3	4201.2	5037.8	4747.9	3221.7	1786.8
75°	265.7	277.6	338.0	443.0	629.2	757.6	2864.1	3654.9	3296.1	1829.4	730.4
77.5°	151.3	152.2	217.7	355.8	565.0	609.6	1697.1	2328.5	1744.8	608.4	216.8
80°	65.5	71.8	108.0	258.5	468.5	539.9	973.1	1279.7	705.7	128.8	70.1
82.5°	24.2	28.5	47.6	159.0	341.8	444.7	588.0	610.9	239.4	45.5	43.8
85°	0.0	0.9	17.4	74.4	178.1	198.5	392.8	362.2	105.9	21.7	28.5
87.5°	0.0	0.0	0.0	7.7	23.4	74.0	122.0	136.0	25.5	7.7	6.8
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°	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5	1686.5
2.5°	1673.8	1646.1	1576.8	1507.5	1456.1	1413.1	1348.5	1313.2	1294.5	1266.9	1268.6
5°	1631.7	1575.5	1453.5	1327.3	1225.2	1125.8	1006.7	958.7	918.3	895.3	880.0
7.5°	1569.2	1486.3	1305.6	1137.2	980.4	806.5	676.0	588.8	530.1	508.5	487.6
10°	1500.7	1390.6	1155.5	922.1	704.4	525.0	414.5	334.6	306.1	279.7	282.3
12.5°	1437.4	1303.5	1017.8	727.8	493.6	333.7	260.2	227.4	218.1	215.1	215.1
15°	1385.5	1220.1	869.8	547.1	338.4	239.8	208.3	199.4	196.0	195.1	195.1
17.5°	1330.2	1141.1	736.3	404.3	246.2	200.7	190.0	184.1	182.8	182.0	182.0
20°	1280.9	1061.6	609.6	301.0	199.0	180.7	173.9	170.1	168.8	167.9	168.4
22.5°	1234.2	991.0	490.6	227.4	175.2	164.5	157.7	153.9	151.3	149.2	149.6
25°	1192.5	923.0	394.5	186.2	157.7	148.4	141.6	136.0	130.5	128.0	127.5
27.5°	1163.2	863.4	307.4	159.4	142.0	131.8	123.3	116.5	109.3	105.4	104.6
30°	1138.9	803.1	243.2	140.7	126.3	116.5	105.9	96.1	88.4	84.6	82.9
32.5°	1123.2	745.7	191.7	125.4	113.1	101.2	89.3	79.5	71.0	67.2	66.3
35°	1120.7	697.6	156.9	112.7	101.2	88.4	76.1	65.5	58.2	54.4	53.6
37.5°	1138.9	660.7	131.4	102.5	91.4	77.4	63.8	54.0	47.6	44.6	44.2
40°	1187.8	637.3	113.9	94.0	82.5	67.2	54.4	45.9	39.5	36.6	36.6
42.5°	1280.9	638.1	102.5	85.9	73.5	57.4	46.3	38.3	32.7	30.2	29.3
45°	1426.3	667.0	92.7	77.8	65.0	49.7	39.5	31.5	25.9	23.8	23.8
47.5°	1621.0	724.4	84.2	69.7	57.4	42.5	33.6	25.5	20.8	18.7	18.7
50°	1875.7	816.7	76.9	62.9	51.0	36.6	27.2	20.8	16.2	14.5	14.0
52.5°	2141.8	930.6	68.4	57.0	43.8	31.0	22.1	16.2	12.3	11.1	10.6
55°	2435.6	1042.0	60.4	51.0	35.7	25.9	17.4	12.8	8.9	7.7	7.7
57.5°	2731.9	1151.3	50.6	42.5	28.1	19.1	13.6	9.4	6.0	4.7	4.7
60°	2982.7	1186.5	42.9	34.4	21.3	13.6	9.8	6.0	3.4	2.1	2.1
62.5°	3017.2	1067.5	36.1	26.4	15.3	9.4	5.1	3.4	1.3	0.9	0.9
65°	2830.1	867.3	30.2	20.0	10.2	4.7	2.1	1.3	0.4	0.0	0.0
67°	2535.9	703.2	24.7	14.9	7.2	3.0	1.3	0.4	0.0	0.0	0.0
67.5°	2460.7	670.4	23.8	14.0	6.4	2.6	0.9	0.4	0.0	0.0	0.0
70°	1931.0	502.1	17.0	8.5	3.8	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	1200.2	284.0	12.3	5.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0
75°	453.6	99.5	8.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	141.1	37.8	5.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	47.6	14.5	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.3	6.0	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.9	0.4	0.0	0.0	0.0	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)