

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: P451155

Luminaire Tested: **GALN-SA2A-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451155
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-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 6928 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

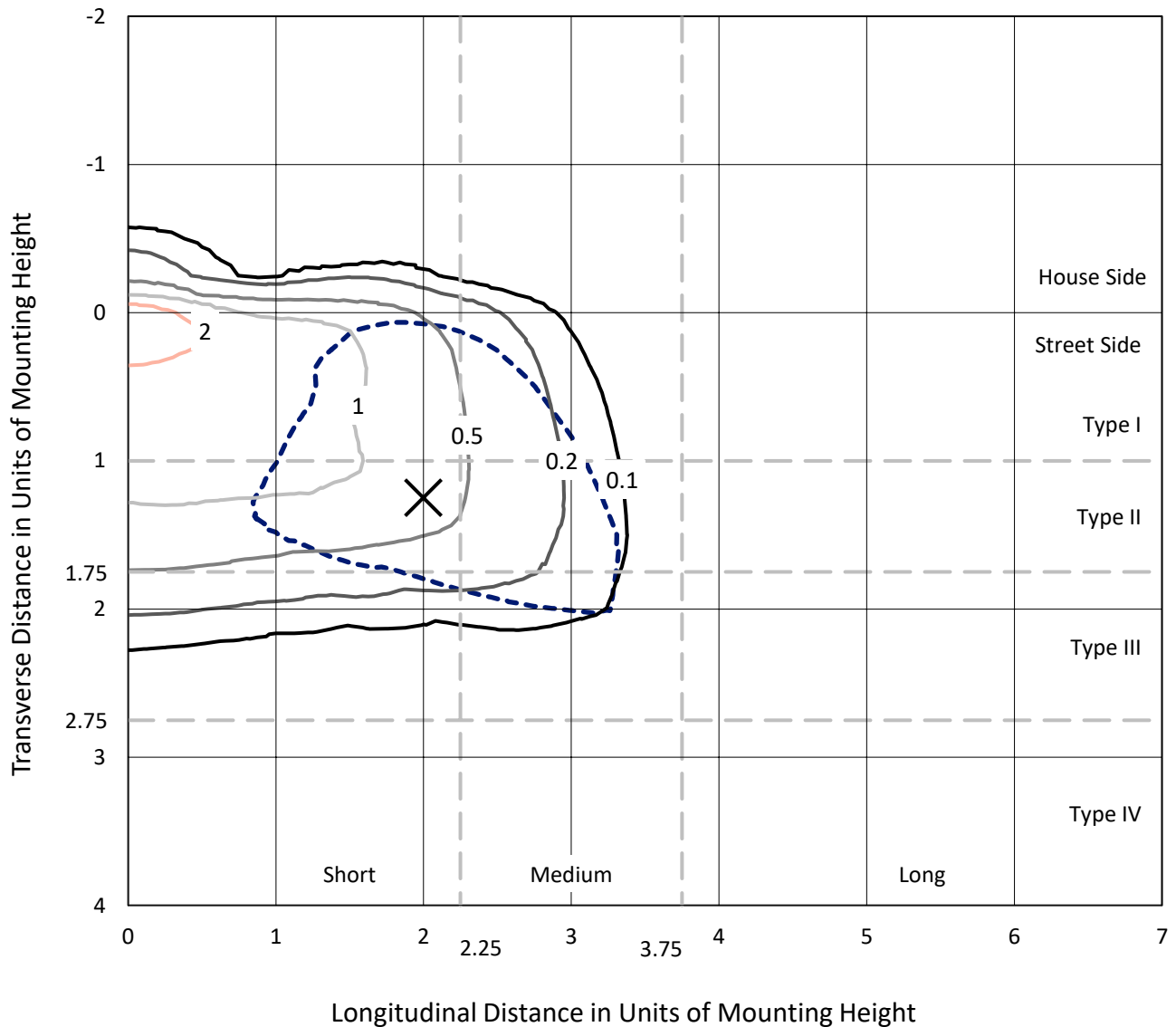
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

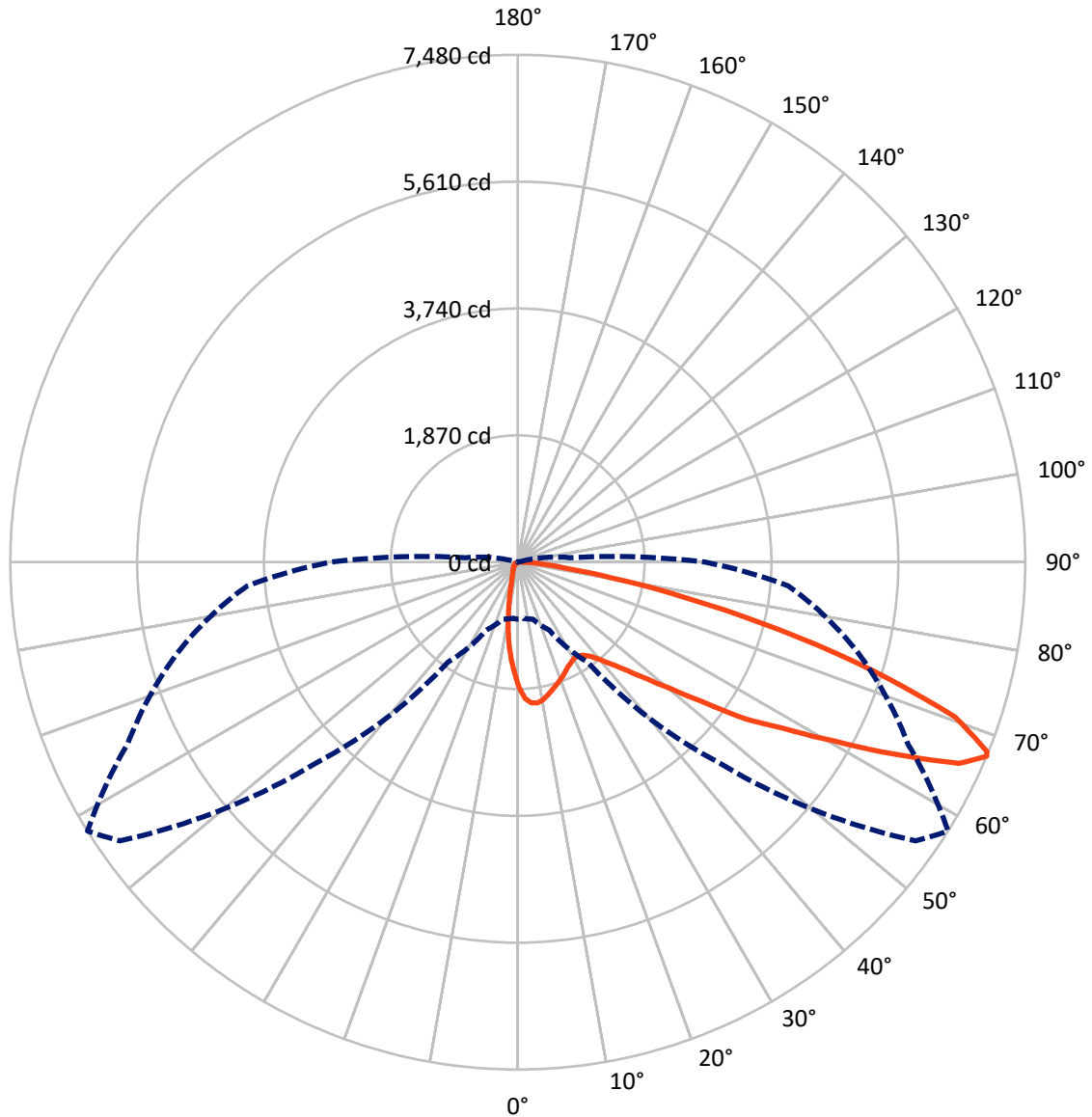
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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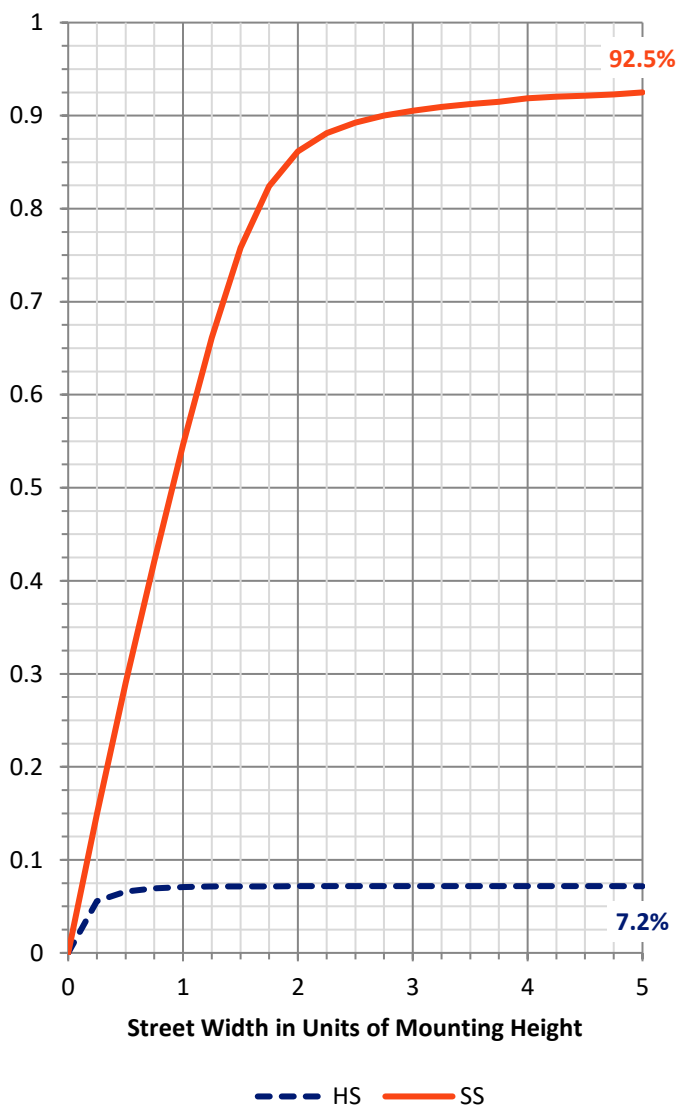
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.0	0.0	500.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6428.0	0.0	6428.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	6928.0	0.0	6928.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	2.2
10°-20°	321.9	4.6
20°-30°	436.2	6.3
30°-40°	604.9	8.7
40°-50°	964.8	13.9
50°-60°	1667.7	24.1
60°-70°	1905.1	27.5
70°-80°	794.2	11.5
80°-90°	84.2	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°	6928.0	100.0
0°-180°	6928.0	100.0



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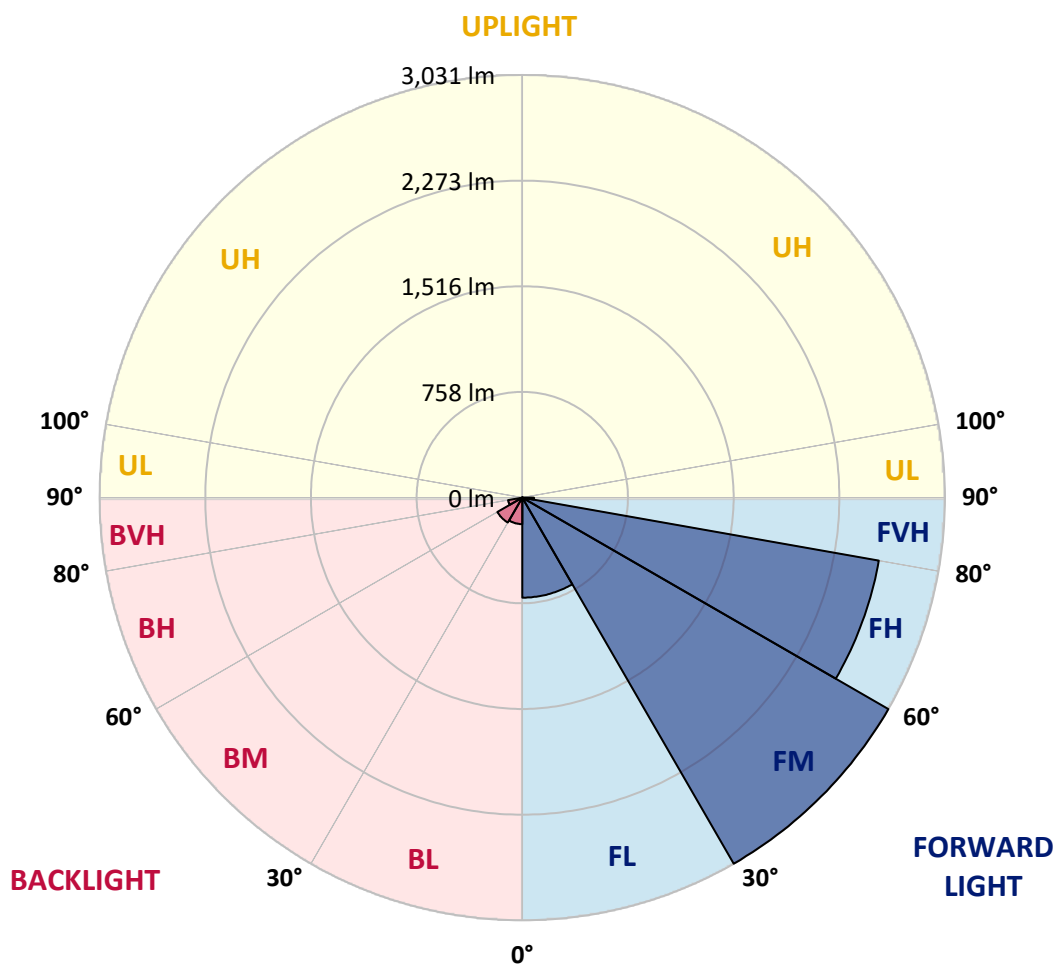
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.2	10.4			
FM (30°-60°)	3031.3	43.8			
FH (60°-80°)	2595.9	37.5			G2/5000
FVH (80°-90°)	83.6	1.2			G1/100
BL (0°-30°)	189.8	2.7	B1/500		
BM (30°-60°)	206.1	3.0	B0/220		
BH (60°-80°)	103.4	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°	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5
2.5°	2131.5	2134.7	2122.7	2112.9	2087.9	2061.1	2025.4	2006.5	1974.0	1918.0	1856.0
5°	2181.5	2185.6	2183.8	2181.5	2171.7	2145.8	2100.4	2083.8	2036.1	1944.9	1832.8
7.5°	2070.3	2085.6	2087.5	2105.5	2122.7	2125.0	2107.8	2095.3	2051.4	1944.4	1791.6
10°	1923.1	1933.3	1948.1	1969.0	2010.2	2044.4	2061.1	2059.2	2033.8	1930.1	1743.5
12.5°	1774.5	1780.1	1802.8	1838.4	1888.9	1947.2	1991.6	2000.4	2000.9	1912.9	1703.2
15°	1646.7	1644.4	1662.0	1703.2	1774.1	1847.2	1926.8	1940.7	1962.9	1896.3	1665.7
17.5°	1537.5	1549.5	1552.3	1597.7	1662.9	1757.8	1859.2	1883.8	1928.2	1881.9	1634.7
20°	1469.9	1476.4	1482.4	1507.8	1566.6	1666.6	1795.8	1829.6	1895.8	1869.0	1600.0
22.5°	1450.0	1454.1	1449.1	1456.9	1498.6	1587.5	1726.8	1771.7	1864.8	1856.9	1571.7
25°	1465.3	1469.4	1457.4	1448.1	1462.5	1523.1	1660.2	1714.8	1839.8	1854.6	1550.4
27.5°	1502.3	1510.2	1493.5	1476.8	1468.5	1488.4	1607.8	1671.3	1822.7	1865.7	1540.7
30°	1560.2	1564.8	1552.3	1531.9	1512.9	1493.0	1580.5	1641.2	1818.0	1891.6	1539.8
32.5°	1623.1	1632.8	1625.9	1612.5	1587.9	1540.7	1588.4	1642.1	1829.1	1929.1	1551.4
35°	1700.9	1712.0	1718.5	1715.7	1684.2	1625.4	1638.4	1683.8	1858.8	1998.1	1582.8
37.5°	1777.3	1787.0	1823.6	1836.1	1808.3	1752.8	1735.6	1765.7	1924.0	2088.4	1639.8
40°	1864.8	1877.8	1929.1	1976.8	1963.4	1905.1	1873.6	1898.6	2024.0	2224.5	1747.7
42.5°	1948.6	1971.7	2050.0	2134.2	2146.7	2081.5	2060.6	2069.0	2172.2	2420.3	1898.1
45°	2067.6	2089.3	2190.2	2304.6	2363.4	2312.5	2291.2	2289.8	2375.4	2695.8	2142.1
47.5°	2239.3	2258.8	2377.7	2490.7	2595.3	2602.3	2562.0	2575.9	2631.0	3018.0	2441.2
50°	2450.0	2495.8	2574.0	2691.6	2831.4	2944.4	2956.9	2938.4	2985.6	3391.2	2800.4
52.5°	2756.0	2773.6	2845.3	2942.1	3106.0	3297.6	3446.2	3420.8	3406.0	3746.7	3163.4
55°	2984.2	3007.8	3119.4	3252.3	3492.5	3745.3	4067.5	4076.3	3889.3	4088.4	3518.5
57.5°	2915.2	2951.3	3120.3	3387.5	3915.7	4377.7	4617.5	4623.5	4336.5	4420.3	3919.4
60°	2561.1	2578.2	2820.3	3176.8	3951.8	5062.9	5397.6	5349.0	4791.6	4791.6	4273.6
62.5°	1816.2	1843.0	2039.3	2563.9	3568.9	5300.9	6331.9	6231.4	5418.4	5146.7	4484.7
65°	1160.6	1134.7	1264.8	1618.5	2658.8	4949.5	7145.3	7151.3	6008.3	5288.8	4369.4
67°	840.7	830.5	868.0	1106.5	1802.8	4160.6	7162.4	7479.5	6347.1	5199.0	4000.9
67.5°	769.0	776.8	804.2	998.1	1637.9	3786.1	7084.6	7460.1	6423.5	5144.8	3867.5
70°	582.9	569.4	599.1	706.0	981.9	2388.4	6094.4	6842.0	6328.6	4607.3	3090.2
72.5°	428.7	427.3	468.5	577.3	756.0	1272.2	4574.9	5486.0	5170.3	3508.3	1945.8
75°	289.3	302.3	368.1	482.4	685.2	825.0	3118.9	3980.0	3589.3	1992.1	795.4
77.5°	164.8	165.7	237.0	387.5	615.3	663.9	1848.1	2535.6	1900.0	662.5	236.1
80°	71.3	78.2	117.6	281.5	510.2	588.0	1059.7	1393.5	768.5	140.3	76.4
82.5°	26.4	31.0	51.9	173.1	372.2	484.3	640.3	665.3	260.6	49.5	47.7
85°	0.0	0.9	19.0	81.0	194.0	216.2	427.8	394.4	115.3	23.6	31.0
87.5°	0.0	0.0	0.0	8.3	25.5	80.6	132.9	148.1	27.8	8.3	7.4
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°	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5
2.5°	1822.7	1792.6	1717.1	1641.6	1585.6	1538.9	1468.5	1430.1	1409.7	1379.6	1381.5
5°	1776.8	1715.7	1582.8	1445.4	1334.2	1225.9	1096.3	1044.0	1000.0	975.0	958.3
7.5°	1708.8	1618.5	1421.7	1238.4	1067.6	878.2	736.1	641.2	577.3	553.7	531.0
10°	1634.2	1514.3	1258.3	1004.2	767.1	571.8	451.4	364.3	333.3	304.6	307.4
12.5°	1565.3	1419.4	1108.3	792.6	537.5	363.4	283.3	247.7	237.5	234.3	234.3
15°	1508.8	1328.7	947.2	595.8	368.5	261.1	226.8	217.1	213.4	212.5	212.5
17.5°	1448.6	1242.6	801.8	440.3	268.1	218.5	206.9	200.5	199.1	198.1	198.1
20°	1394.9	1156.0	663.9	327.8	216.7	196.8	189.3	185.2	183.8	182.9	183.3
22.5°	1344.0	1079.2	534.3	247.7	190.7	179.2	171.8	167.6	164.8	162.5	163.0
25°	1298.6	1005.1	429.6	202.8	171.8	161.6	154.2	148.1	142.1	139.3	138.9
27.5°	1266.6	940.3	334.7	173.6	154.6	143.5	134.3	126.9	119.0	114.8	113.9
30°	1240.3	874.5	264.8	153.2	137.5	126.9	115.3	104.6	96.3	92.1	90.3
32.5°	1223.1	812.0	208.8	136.6	123.1	110.2	97.2	86.6	77.3	73.1	72.2
35°	1220.4	759.7	170.8	122.7	110.2	96.3	82.9	71.3	63.4	59.3	58.3
37.5°	1240.3	719.4	143.1	111.6	99.5	84.3	69.4	58.8	51.9	48.6	48.1
40°	1293.5	694.0	124.1	102.3	89.8	73.1	59.3	50.0	43.1	39.8	39.8
42.5°	1394.9	694.9	111.6	93.5	80.1	62.5	50.5	41.7	35.6	32.9	31.9
45°	1553.2	726.4	100.9	84.7	70.8	54.2	43.1	34.3	28.2	25.9	25.9
47.5°	1765.3	788.9	91.7	75.9	62.5	46.3	36.6	27.8	22.7	20.4	20.4
50°	2042.6	889.3	83.8	68.5	55.6	39.8	29.6	22.7	17.6	15.7	15.3
52.5°	2332.4	1013.4	74.5	62.0	47.7	33.8	24.1	17.6	13.4	12.0	11.6
55°	2652.3	1134.7	65.7	55.6	38.9	28.2	19.0	13.9	9.7	8.3	8.3
57.5°	2975.0	1253.7	55.1	46.3	30.6	20.8	14.8	10.2	6.5	5.1	5.1
60°	3248.1	1292.1	46.8	37.5	23.1	14.8	10.6	6.5	3.7	2.3	2.3
62.5°	3285.6	1162.5	39.4	28.7	16.7	10.2	5.6	3.7	1.4	0.9	0.9
65°	3081.9	944.4	32.9	21.8	11.1	5.1	2.3	1.4	0.5	0.0	0.0
67°	2761.5	765.7	26.9	16.2	7.9	3.2	1.4	0.5	0.0	0.0	0.0
67.5°	2679.6	730.1	25.9	15.3	6.9	2.8	0.9	0.5	0.0	0.0	0.0
70°	2102.7	546.8	18.5	9.3	4.2	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	1306.9	309.3	13.4	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	494.0	108.3	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	153.7	41.2	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	51.9	15.7	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.9	6.5	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	0.9	0.5	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)