

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: P651728

Luminaire Tested: **GALN-SA2A-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4522.9 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

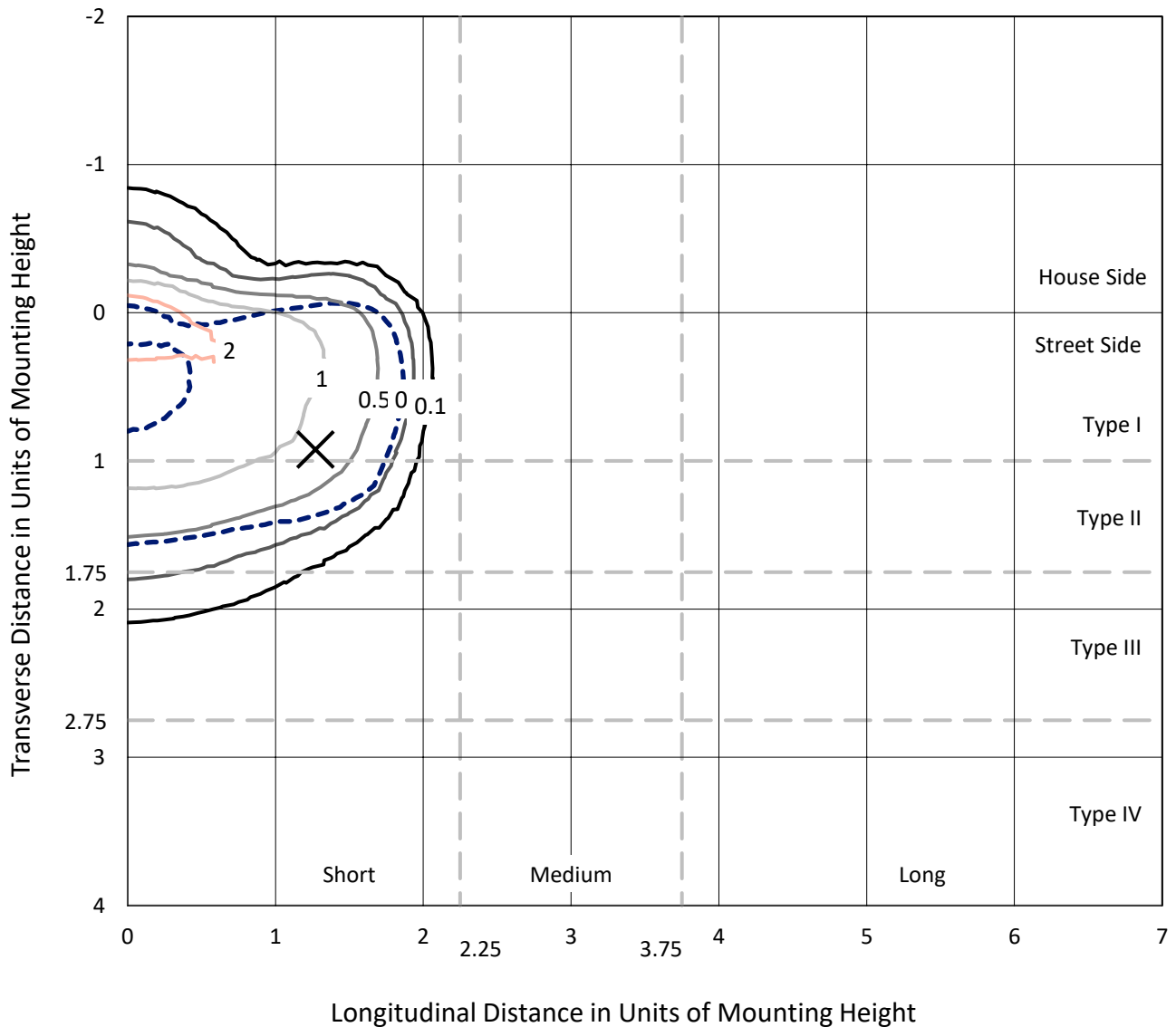
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

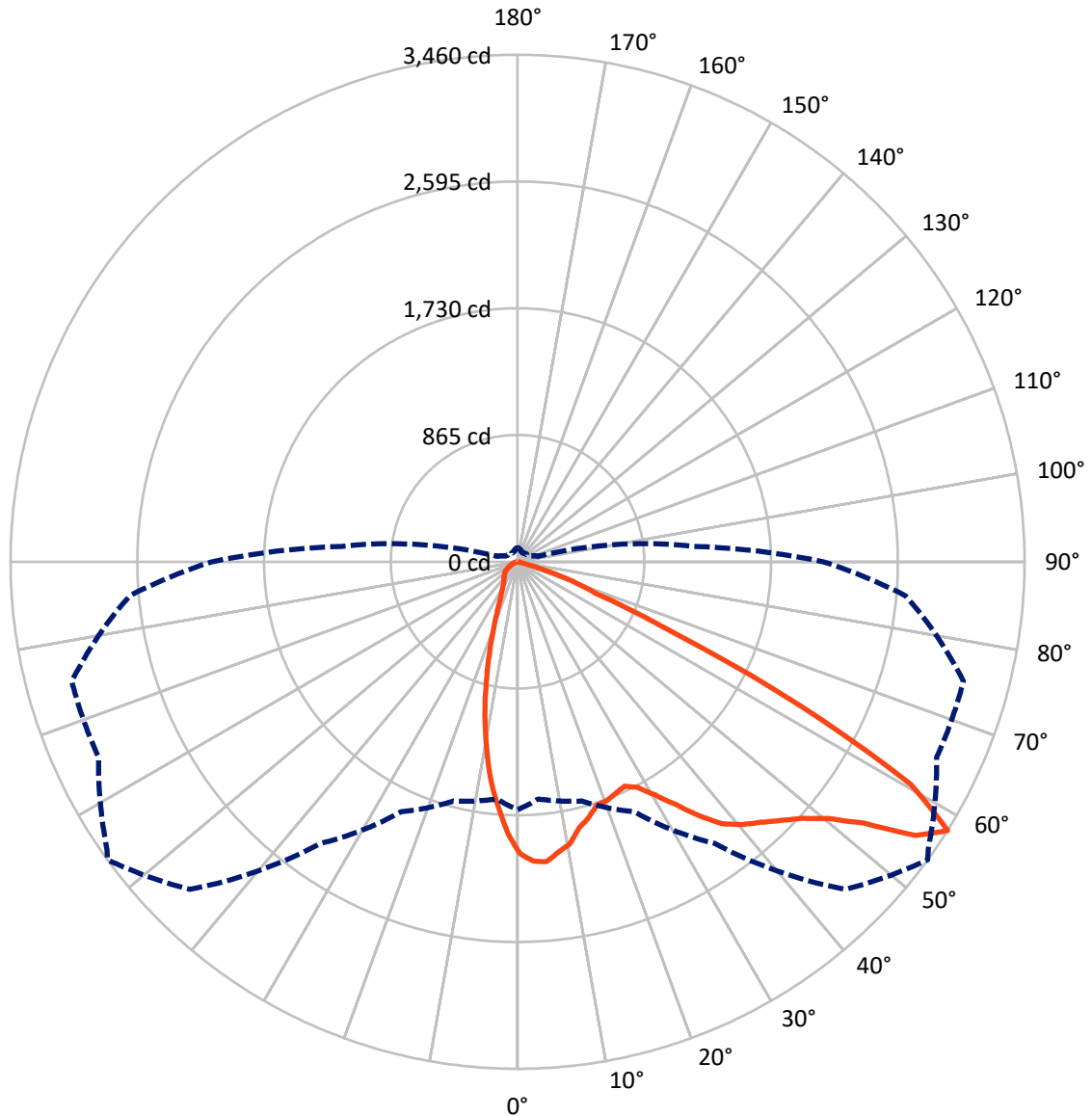
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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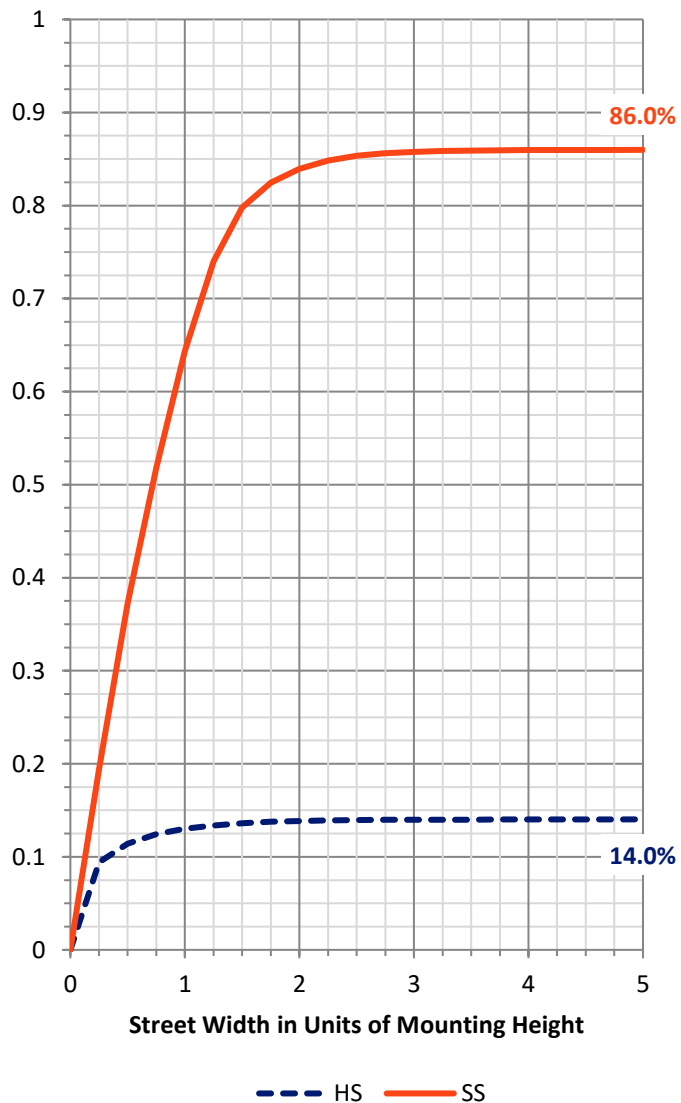
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	639.2	0.0	639.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	3883.7	0.0	3883.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	4522.9	0.0	4522.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	3.7
10°-20°	356.0	7.9
20°-30°	471.7	10.4
30°-40°	685.5	15.2
40°-50°	1016.6	22.5
50°-60°	1271.2	28.1
60°-70°	501.4	11.1
70°-80°	49.9	1.1
80°-90°	3.9	0.1
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°	4522.9	100.0
0°-180°	4522.9	100.0

**Coefficient of Utilization**

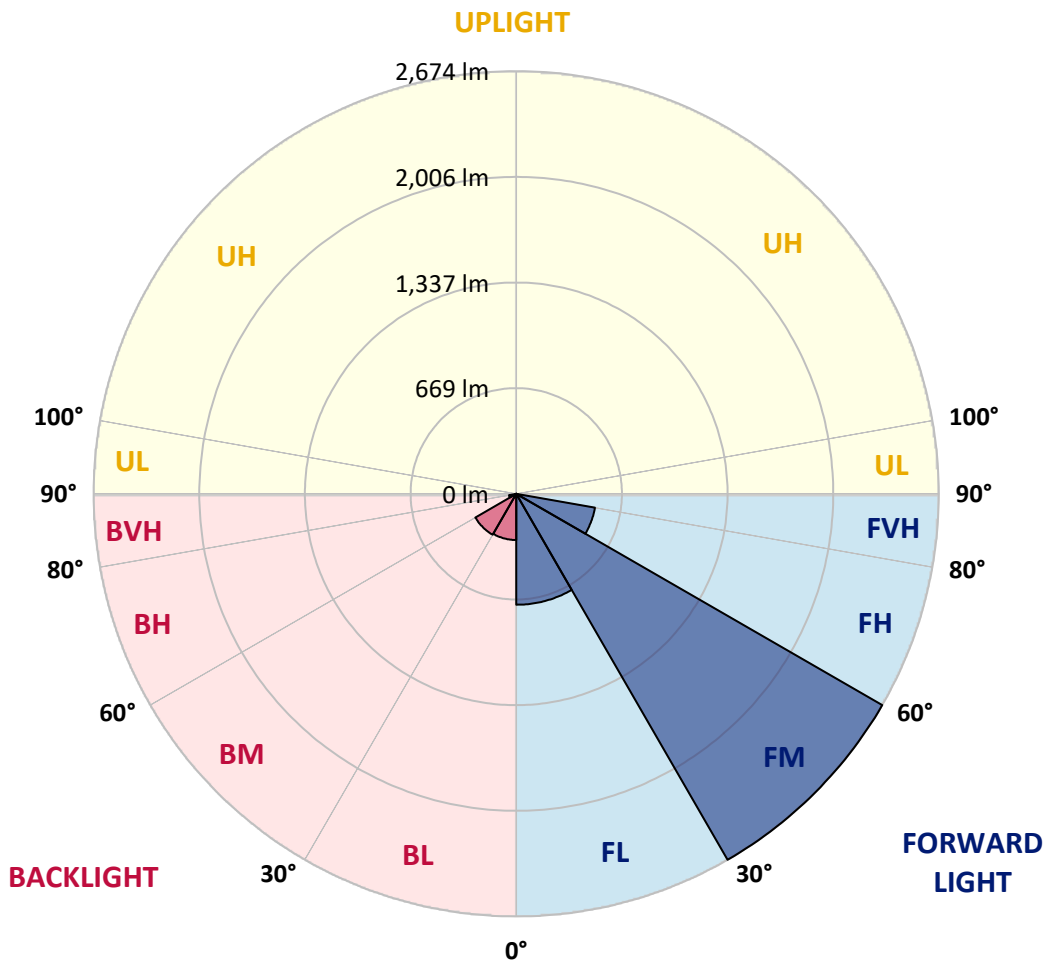


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.1	15.5			
FM (30°-60°)	2674.4	59.1			
FH (60°-80°)	505.5	11.2			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	292.3	6.5	B1/500		
BM (30°-60°)	298.9	6.6	B1/1000		
BH (60°-80°)	45.8	1.0	B0/110		G0/110
BVH (80°-90°)	2.1	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4
2.5°	2108.5	2086.6	2088.3	2080.7	2070.6	2078.2	2045.4	2053.0	2052.1	2007.6	1978.1
5°	2055.5	2079.0	2054.6	2074.8	2055.5	2076.5	2056.3	2041.2	2016.8	1984.0	1929.3
7.5°	1965.5	1942.8	1949.5	1974.8	1979.0	2026.1	2000.8	2020.2	2010.1	1945.3	1870.5
10°	1784.7	1779.6	1813.3	1846.9	1888.1	1938.6	1957.9	1947.0	1939.4	1915.0	1815.0
12.5°	1645.9	1660.2	1659.4	1714.9	1784.7	1813.3	1863.7	1862.1	1904.1	1858.7	1762.8
15°	1513.9	1521.5	1556.8	1591.3	1668.6	1750.2	1812.4	1820.8	1871.3	1839.4	1722.5
17.5°	1433.1	1422.2	1450.0	1491.2	1570.2	1677.0	1746.0	1766.2	1835.1	1828.4	1676.2
20°	1353.3	1353.3	1376.0	1424.7	1497.1	1617.3	1740.1	1734.2	1835.1	1815.8	1626.6
22.5°	1326.3	1339.8	1345.7	1382.7	1468.5	1571.9	1714.9	1725.8	1849.4	1809.9	1604.7
25°	1363.3	1345.7	1347.4	1376.8	1457.5	1550.0	1696.4	1720.8	1875.5	1839.4	1587.1
27.5°	1369.2	1386.9	1391.9	1412.1	1465.9	1556.8	1742.6	1792.3	1940.3	1908.3	1592.1
30°	1420.5	1438.2	1437.4	1471.8	1508.8	1611.4	1846.1	1856.2	2074.0	1994.9	1623.2
32.5°	1482.8	1501.3	1507.2	1547.5	1577.0	1711.5	1972.2	1998.3	2202.7	2131.2	1704.8
35°	1560.1	1553.4	1580.3	1620.7	1683.8	1857.9	2126.1	2169.9	2341.4	2307.8	1788.9
37.5°	1656.9	1648.4	1674.5	1740.1	1825.9	2031.1	2268.3	2296.9	2442.3	2471.8	1944.5
40°	1725.0	1728.3	1807.4	1895.7	1986.5	2195.9	2358.2	2386.0	2513.0	2624.8	2062.2
42.5°	1838.5	1859.5	1954.6	2062.2	2157.2	2319.6	2431.4	2458.3	2545.8	2747.6	2221.2
45°	2003.3	1994.1	2099.2	2219.5	2324.6	2448.2	2518.0	2508.8	2565.1	2869.6	2321.2
47.5°	2215.3	2217.0	2286.8	2389.4	2498.7	2560.1	2614.8	2582.0	2605.5	2998.2	2455.0
50°	2359.9	2372.5	2428.9	2534.0	2588.7	2682.9	2752.7	2732.5	2724.9	3075.6	2539.1
52.5°	2396.9	2434.8	2465.1	2596.3	2724.1	2872.9	2962.1	3005.0	2870.4	3101.7	2645.9
55°	2117.7	2151.4	2258.2	2438.1	2775.4	3174.0	3296.8	3297.6	3060.5	3217.8	2720.7
57.5°	1693.0	1624.9	1690.5	1881.4	2346.5	3161.4	3460.0	3420.4	3155.5	3149.6	2656.0
60°	1170.7	1153.9	1158.1	1233.8	1624.1	2514.7	3083.2	3134.5	2905.7	2730.0	2102.6
62.5°	927.6	913.3	894.8	886.4	1008.4	1566.9	2174.9	2247.2	2031.9	1770.4	1246.4
65°	726.6	718.2	720.7	754.4	753.5	888.9	1189.2	1159.7	928.5	686.3	391.9
67.5°	490.3	502.9	513.0	614.8	666.9	619.0	574.4	557.6	301.9	127.0	86.6
70°	275.8	277.5	288.5	384.3	506.3	480.2	396.1	396.1	150.5	46.3	49.6
72.5°	150.5	145.5	135.4	165.7	225.4	228.8	176.6	153.9	44.6	30.3	27.8
75°	73.2	72.3	62.2	51.3	48.8	40.4	31.1	28.6	20.2	19.3	16.8
77.5°	15.1	14.3	7.6	7.6	8.4	9.3	11.8	11.8	14.3	14.3	11.8
80°	0.0	0.0	0.8	3.4	5.9	8.4	10.1	10.1	11.8	11.8	9.3
82.5°	0.0	0.0	0.8	2.5	5.0	7.6	9.3	10.1	11.8	12.6	10.1
85°	0.0	0.0	0.0	1.7	4.2	5.9	5.0	5.0	4.2	3.4	1.7
87.5°	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4
2.5°	1963.0	1961.3	1922.6	1900.7	1861.2	1826.7	1799.0	1778.8	1778.8	1766.2	1754.4
5°	1907.5	1893.2	1810.8	1757.8	1682.9	1627.4	1589.6	1560.1	1513.9	1526.5	1476.9
7.5°	1838.5	1802.3	1693.0	1612.3	1508.8	1429.8	1349.0	1277.6	1208.5	1177.4	1194.2
10°	1764.5	1701.4	1554.3	1426.4	1297.7	1153.0	1058.8	944.4	873.8	869.6	851.1
12.5°	1686.3	1614.8	1435.7	1259.1	1089.9	915.8	772.0	665.2	617.3	564.3	574.4
15°	1627.4	1521.5	1303.6	1090.8	866.2	690.5	545.8	463.4	418.0	405.4	401.2
17.5°	1563.5	1450.0	1169.0	911.6	679.5	497.0	392.7	353.2	335.6	335.6	333.0
20°	1497.1	1369.2	1035.3	745.1	509.6	370.9	314.5	301.9	301.1	300.2	300.2
22.5°	1453.3	1276.7	914.2	592.1	384.3	296.9	273.3	268.3	271.6	281.7	281.7
25°	1407.1	1187.5	780.4	456.7	297.7	254.8	241.4	244.7	253.1	262.4	259.0
27.5°	1360.0	1129.5	654.3	358.3	243.9	222.9	217.8	225.4	234.6	243.0	240.5
30°	1349.0	1067.2	534.9	271.6	209.4	194.3	197.6	204.4	213.6	217.0	220.3
32.5°	1365.9	1018.5	438.2	222.9	182.5	178.3	178.3	181.7	187.5	195.1	192.6
35°	1413.8	990.7	346.5	193.4	167.4	163.2	162.3	165.7	169.0	171.6	169.0
37.5°	1487.0	968.8	283.4	171.6	157.3	150.5	148.9	148.0	151.4	152.2	153.9
40°	1580.3	980.6	240.5	158.1	147.2	139.6	134.6	134.6	134.6	137.1	137.9
42.5°	1681.2	996.6	207.7	150.5	137.9	128.7	123.6	121.9	123.6	127.0	126.2
45°	1787.2	1027.7	186.7	138.8	129.5	117.7	111.0	109.3	113.5	120.3	119.4
47.5°	1886.4	1072.3	170.7	131.2	121.1	110.2	101.8	100.1	107.6	116.9	117.7
50°	1985.7	1149.6	164.8	125.3	115.2	102.6	95.0	93.4	101.8	113.5	116.1
52.5°	2100.1	1233.0	160.6	117.7	108.5	96.7	88.3	86.6	95.9	111.0	111.9
55°	2174.9	1303.6	157.3	104.3	95.9	87.5	80.7	79.9	90.0	103.4	106.8
57.5°	2087.4	1205.2	145.5	90.8	81.6	77.4	71.5	71.5	79.9	92.5	95.0
60°	1582.8	793.1	103.4	73.2	69.0	66.4	63.9	63.9	70.6	79.9	80.7
62.5°	926.8	427.2	66.4	58.9	58.9	56.3	52.1	52.1	58.9	63.9	64.8
65°	275.0	137.1	53.8	50.5	49.6	45.4	41.2	40.4	45.4	47.9	47.1
67.5°	79.1	63.1	44.6	42.0	41.2	34.5	32.0	31.1	32.0	30.3	29.4
70°	47.1	42.9	34.5	35.3	31.1	25.2	22.7	21.9	20.2	17.7	16.0
72.5°	26.1	26.1	25.2	26.9	21.9	16.8	14.3	11.8	9.3	7.6	6.7
75°	16.0	16.8	17.7	18.5	14.3	10.9	9.3	5.9	3.4	1.7	1.7
77.5°	10.9	11.8	12.6	13.5	11.8	10.1	7.6	4.2	0.8	0.0	0.0
80°	8.4	9.3	10.9	11.8	12.6	13.5	10.1	4.2	0.8	0.0	0.0
82.5°	9.3	10.1	12.6	11.8	11.8	11.8	9.3	4.2	0.8	0.0	0.0
85°	1.7	2.5	4.2	4.2	5.9	7.6	5.9	1.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)