

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: P451503

Luminaire Tested: **GALN-SA2B-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451503
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-SA2B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA 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: 6958 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

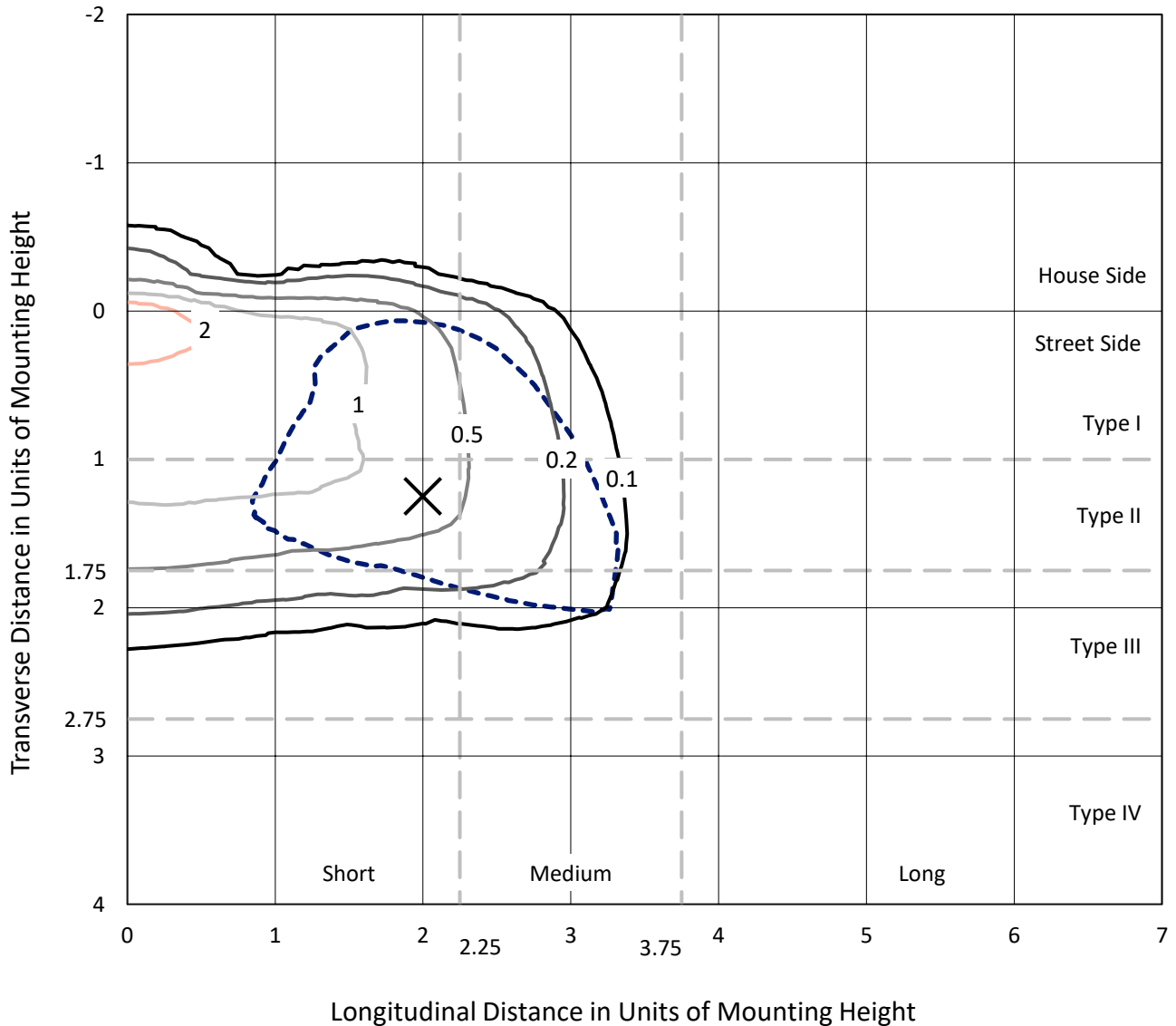
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

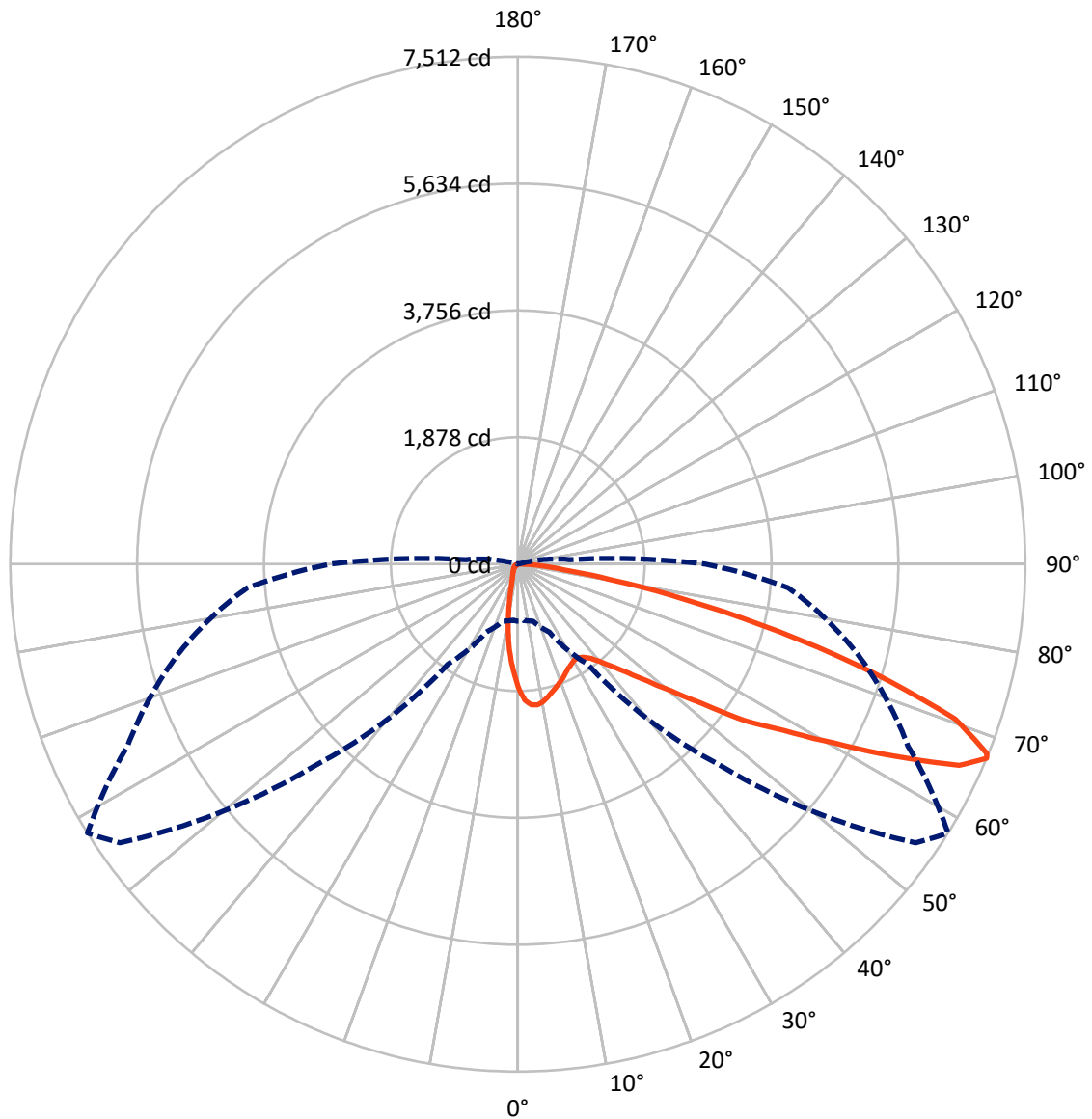
× Max cd
 - - - 1/2 Max cd



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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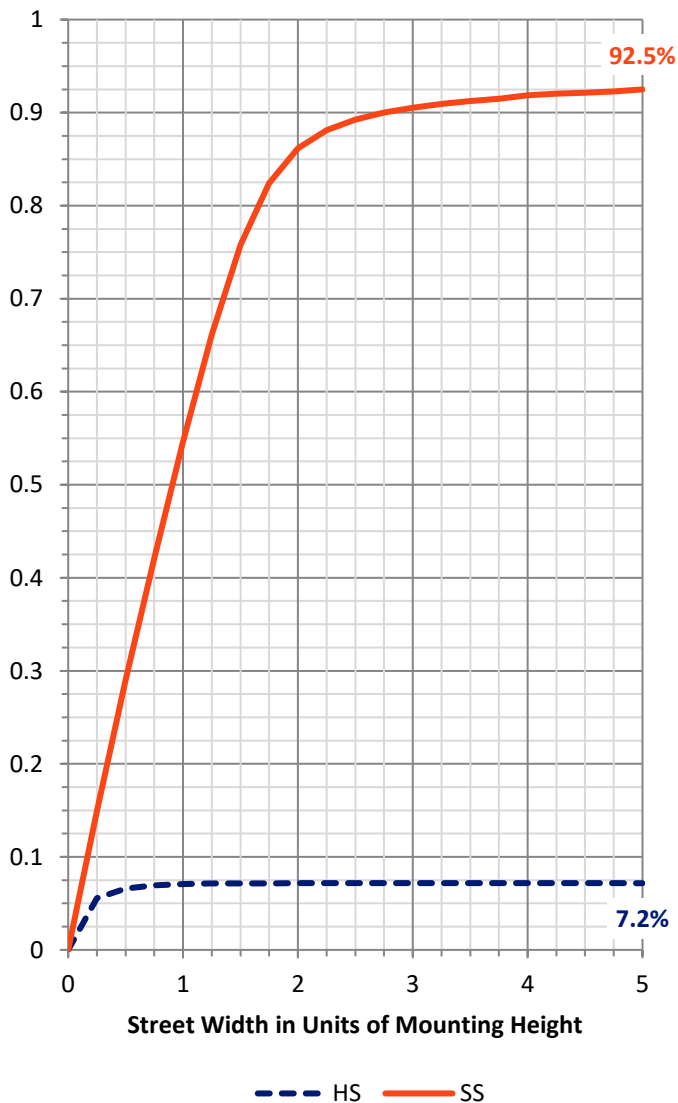
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.1	0.0	502.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6455.9	0.0	6455.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	6958.0	0.0	6958.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	2.2
10°-20°	323.3	4.6
20°-30°	438.1	6.3
30°-40°	607.5	8.7
40°-50°	969.0	13.9
50°-60°	1674.9	24.1
60°-70°	1913.3	27.5
70°-80°	797.7	11.5
80°-90°	84.6	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°	6958.0	100.0
0°-180°	6958.0	100.0



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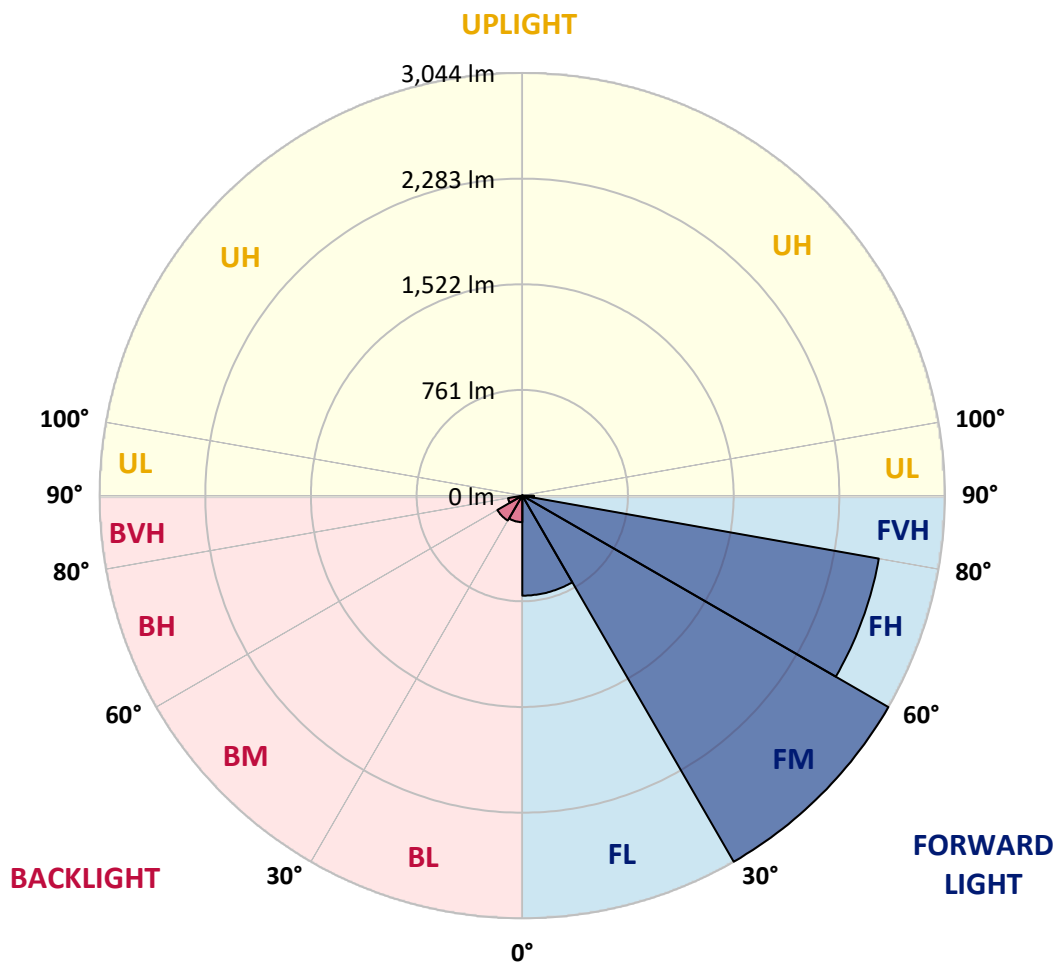
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.3	10.4			
FM (30°-60°)	3044.4	43.8			
FH (60°-80°)	2607.2	37.5			G2/5000
FVH (80°-90°)	84.0	1.2			G1/100
BL (0°-30°)	190.7	2.7	B1/500		
BM (30°-60°)	207.0	3.0	B0/220		
BH (60°-80°)	103.8	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°	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5
2.5°	2140.7	2143.9	2131.8	2122.1	2097.0	2070.0	2034.2	2015.1	1982.6	1926.3	1864.0
5°	2190.9	2195.1	2193.2	2190.9	2181.1	2155.1	2109.5	2092.8	2044.9	1953.3	1840.8
7.5°	2079.3	2094.7	2096.5	2114.6	2131.8	2134.2	2117.0	2104.4	2060.2	1952.8	1799.4
10°	1931.4	1941.7	1956.6	1977.5	2018.9	2053.3	2070.0	2068.1	2042.6	1938.4	1751.0
12.5°	1782.2	1787.8	1810.6	1846.4	1897.0	1955.6	2000.3	2009.1	2009.6	1921.2	1710.6
15°	1653.9	1651.5	1669.2	1710.6	1781.7	1855.2	1935.2	1949.1	1971.4	1904.5	1672.9
17.5°	1544.1	1556.2	1559.0	1604.6	1670.1	1765.5	1867.3	1891.9	1936.6	1890.1	1641.8
20°	1476.3	1482.8	1488.8	1514.4	1573.4	1673.9	1803.6	1837.5	1904.0	1877.0	1606.9
22.5°	1456.3	1460.4	1455.3	1463.2	1505.1	1594.4	1734.3	1779.4	1872.9	1865.0	1578.5
25°	1471.6	1475.8	1463.7	1454.4	1468.8	1529.7	1667.4	1722.2	1847.8	1862.6	1557.2
27.5°	1508.8	1516.7	1500.0	1483.2	1474.9	1494.9	1614.8	1678.5	1830.6	1873.8	1547.4
30°	1566.9	1571.6	1559.0	1538.6	1519.5	1499.5	1587.4	1648.3	1825.9	1899.8	1546.5
32.5°	1630.2	1639.9	1632.9	1619.5	1594.8	1547.4	1595.3	1649.2	1837.1	1937.5	1558.1
35°	1708.3	1719.4	1725.9	1723.1	1691.5	1632.5	1645.5	1691.1	1866.8	2006.8	1589.7
37.5°	1785.0	1794.8	1831.5	1844.0	1816.1	1760.3	1743.1	1773.4	1932.4	2097.4	1646.9
40°	1872.9	1885.9	1937.5	1985.4	1971.9	1913.3	1881.7	1906.8	2032.8	2234.1	1755.2
42.5°	1957.0	1980.3	2058.8	2143.5	2156.0	2090.5	2069.5	2077.9	2181.6	2430.8	1906.3
45°	2076.5	2098.4	2199.7	2314.6	2373.6	2322.5	2301.1	2299.7	2385.7	2707.5	2151.4
47.5°	2249.0	2268.5	2388.0	2501.5	2606.6	2613.5	2573.1	2587.0	2642.4	3031.1	2451.7
50°	2460.6	2506.6	2585.2	2703.3	2843.7	2957.2	2969.7	2951.1	2998.5	3405.8	2812.6
52.5°	2767.9	2785.6	2857.7	2954.8	3119.4	3311.9	3461.2	3435.6	3420.7	3762.9	3177.1
55°	2997.1	3020.9	3132.9	3266.4	3507.7	3761.5	4085.2	4094.0	3906.1	4106.1	3533.7
57.5°	2927.9	2964.1	3133.8	3402.1	3932.6	4396.7	4637.5	4643.6	4355.3	4439.5	3936.4
60°	2572.2	2589.4	2832.5	3190.6	3968.9	5084.8	5421.0	5372.2	4812.4	4812.4	4292.1
62.5°	1824.0	1851.0	2048.2	2575.0	3584.4	5323.8	6359.3	6258.4	5441.9	5169.0	4504.1
65°	1165.7	1139.6	1270.3	1625.5	2670.3	4970.9	7176.2	7182.3	6034.3	5311.7	4388.3
67°	844.4	834.1	871.8	1111.3	1810.6	4178.6	7193.4	7511.9	6374.6	5221.5	4018.2
67.5°	772.3	780.2	807.6	1002.5	1645.0	3802.5	7115.3	7492.4	6451.3	5167.1	3884.3
70°	585.4	571.9	601.7	709.1	986.2	2398.7	6120.8	6871.7	6356.0	4627.3	3103.6
72.5°	430.6	429.2	470.5	579.8	759.3	1277.7	4594.7	5509.8	5192.7	3523.5	1954.2
75°	290.6	303.6	369.6	484.5	688.1	828.6	3132.4	3997.3	3604.8	2000.7	798.8
77.5°	165.5	166.5	238.1	389.2	617.9	666.8	1856.1	2546.6	1908.2	665.4	237.1
80°	71.6	78.6	118.1	282.7	512.4	590.5	1064.3	1399.5	771.8	140.9	76.7
82.5°	26.5	31.2	52.1	173.9	373.8	486.3	643.0	668.1	261.8	49.8	47.9
85°	0.0	0.9	19.1	81.4	194.8	217.1	429.6	396.1	115.8	23.7	31.2
87.5°	0.0	0.0	0.0	8.4	25.6	80.9	133.4	148.8	27.9	8.4	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°	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5	1844.5
2.5°	1830.6	1800.3	1724.5	1648.8	1592.5	1545.5	1474.9	1436.3	1415.8	1385.6	1387.4
5°	1784.5	1723.1	1589.7	1451.6	1340.0	1231.2	1101.0	1048.5	1004.3	979.2	962.5
7.5°	1716.2	1625.5	1427.9	1243.8	1072.2	882.0	739.3	644.0	579.8	556.1	533.3
10°	1641.3	1520.9	1263.8	1008.5	770.4	574.2	453.3	365.9	334.8	305.9	308.7
12.5°	1572.0	1425.6	1113.1	796.0	539.8	365.0	284.6	248.8	238.5	235.3	235.3
15°	1515.3	1334.4	951.3	598.4	370.1	262.2	227.8	218.1	214.3	213.4	213.4
17.5°	1454.9	1248.0	805.3	442.2	269.2	219.5	207.8	201.3	199.9	199.0	199.0
20°	1400.9	1161.0	666.8	329.2	217.6	197.6	190.2	186.0	184.6	183.7	184.1
22.5°	1349.8	1083.8	536.6	248.8	191.6	179.9	172.5	168.3	165.5	163.2	163.7
25°	1304.2	1009.4	431.5	203.7	172.5	162.3	154.8	148.8	142.7	140.0	139.5
27.5°	1272.1	944.3	336.2	174.4	155.3	144.1	134.8	127.4	119.5	115.3	114.4
30°	1245.6	878.3	266.0	153.9	138.1	127.4	115.8	105.1	96.7	92.5	90.7
32.5°	1228.4	815.5	209.7	137.2	123.7	110.7	97.6	86.9	77.6	73.5	72.5
35°	1225.6	763.0	171.6	123.2	110.7	96.7	83.2	71.6	63.7	59.5	58.6
37.5°	1245.6	722.6	143.7	112.1	100.0	84.6	69.7	59.1	52.1	48.8	48.4
40°	1299.1	697.0	124.6	102.8	90.2	73.5	59.5	50.2	43.2	40.0	40.0
42.5°	1400.9	697.9	112.1	93.9	80.4	62.8	50.7	41.8	35.8	33.0	32.1
45°	1559.9	729.5	101.4	85.1	71.1	54.4	43.2	34.4	28.4	26.0	26.0
47.5°	1772.9	792.3	92.1	76.3	62.8	46.5	36.7	27.9	22.8	20.5	20.5
50°	2051.4	893.2	84.2	68.8	55.8	40.0	29.8	22.8	17.7	15.8	15.3
52.5°	2342.5	1017.8	74.9	62.3	47.9	33.9	24.2	17.7	13.5	12.1	11.6
55°	2663.8	1139.6	66.0	55.8	39.1	28.4	19.1	13.9	9.8	8.4	8.4
57.5°	2987.8	1259.1	55.3	46.5	30.7	20.9	14.9	10.2	6.5	5.1	5.1
60°	3262.2	1297.7	47.0	37.7	23.2	14.9	10.7	6.5	3.7	2.3	2.3
62.5°	3299.8	1167.5	39.5	28.8	16.7	10.2	5.6	3.7	1.4	0.9	0.9
65°	3095.2	948.5	33.0	21.9	11.2	5.1	2.3	1.4	0.5	0.0	0.0
67°	2773.5	769.0	27.0	16.3	7.9	3.3	1.4	0.5	0.0	0.0	0.0
67.5°	2691.2	733.2	26.0	15.3	7.0	2.8	0.9	0.5	0.0	0.0	0.0
70°	2111.9	549.1	18.6	9.3	4.2	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	1312.6	310.6	13.5	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	496.1	108.8	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	154.4	41.4	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	52.1	15.8	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.1	6.5	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.0	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)