

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: P947344

Luminaire Tested: **GALN-SB2D-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12848 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 147.6
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



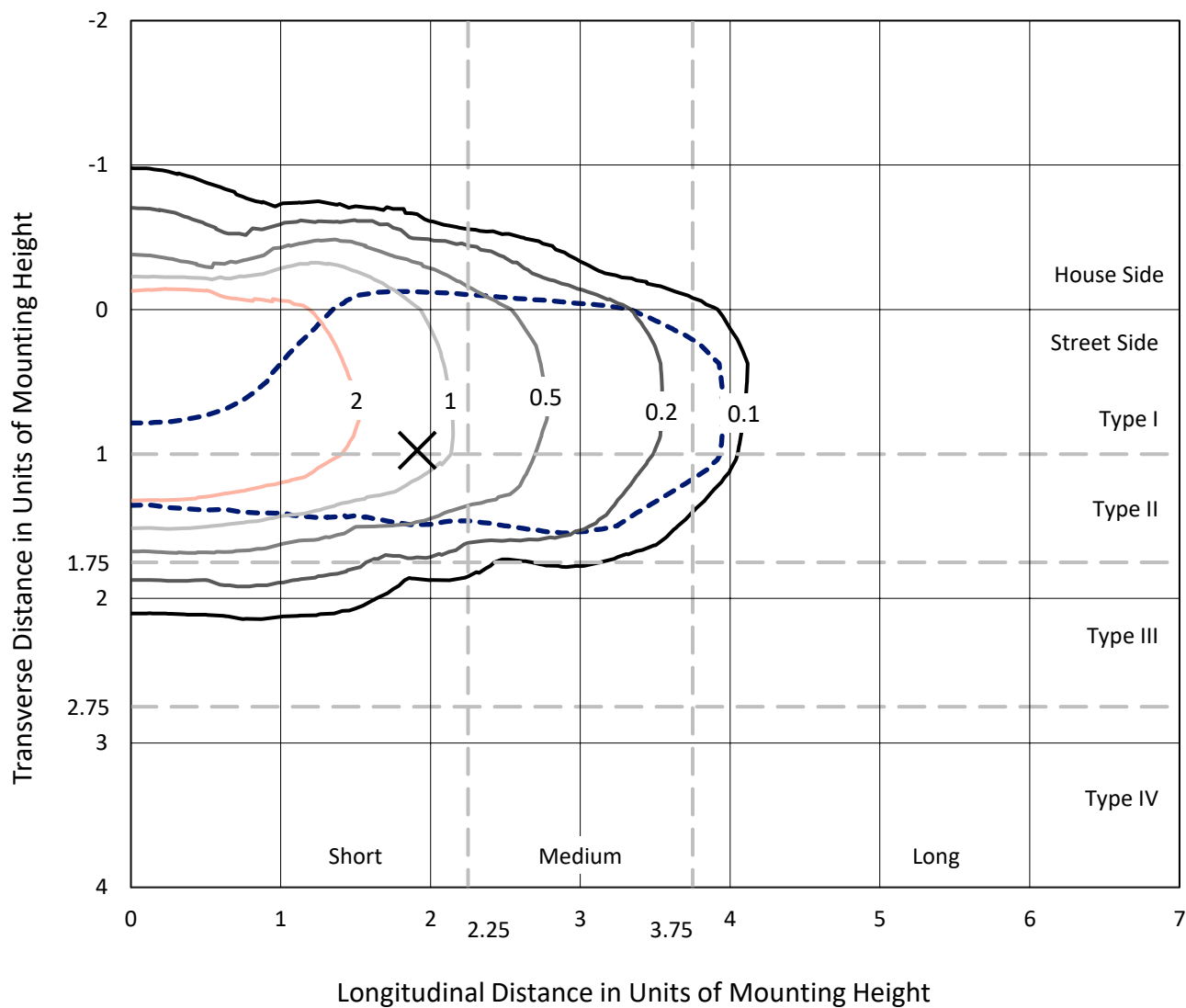
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Iso-Footcandle Lines of Horizontal Illumination

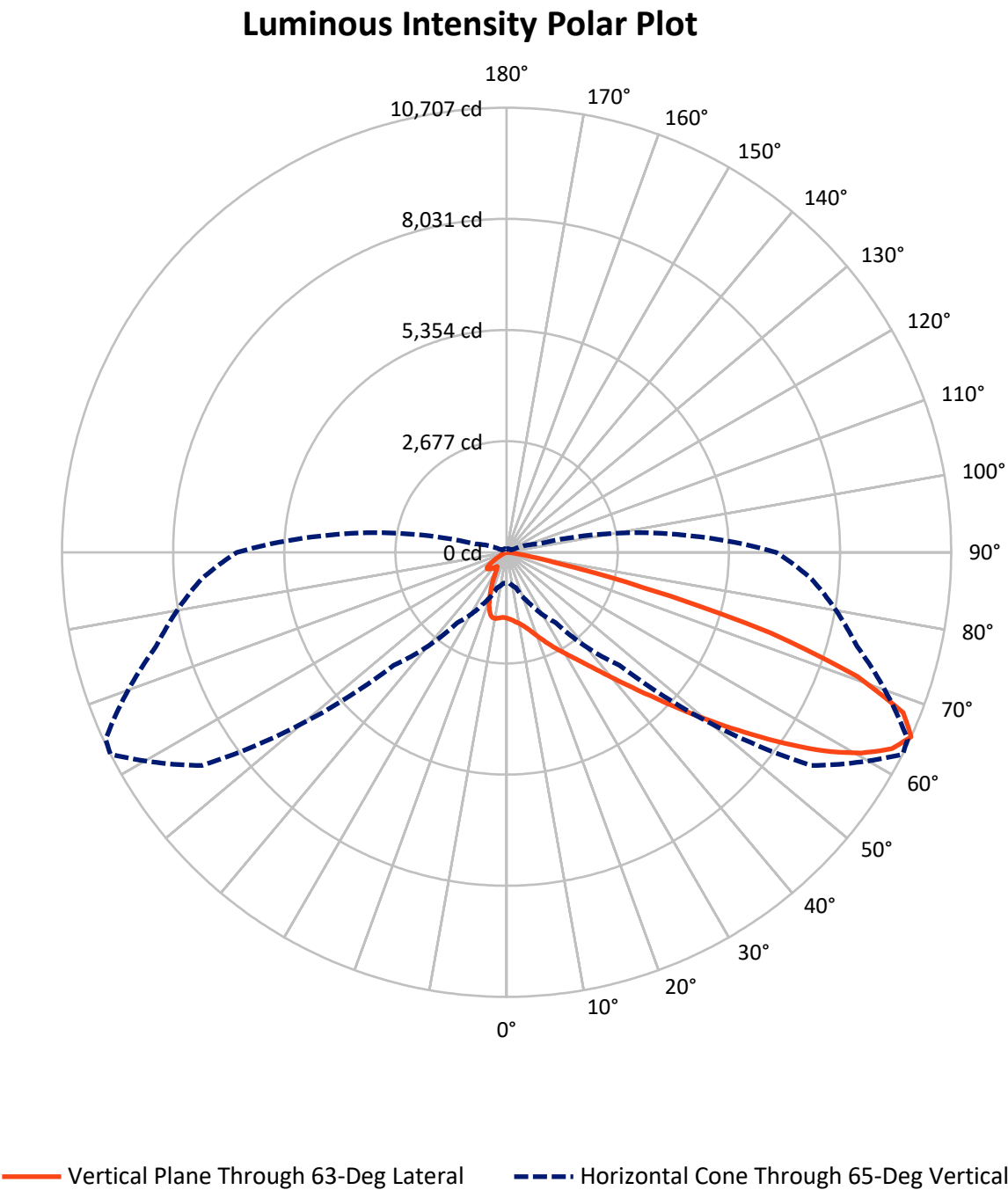
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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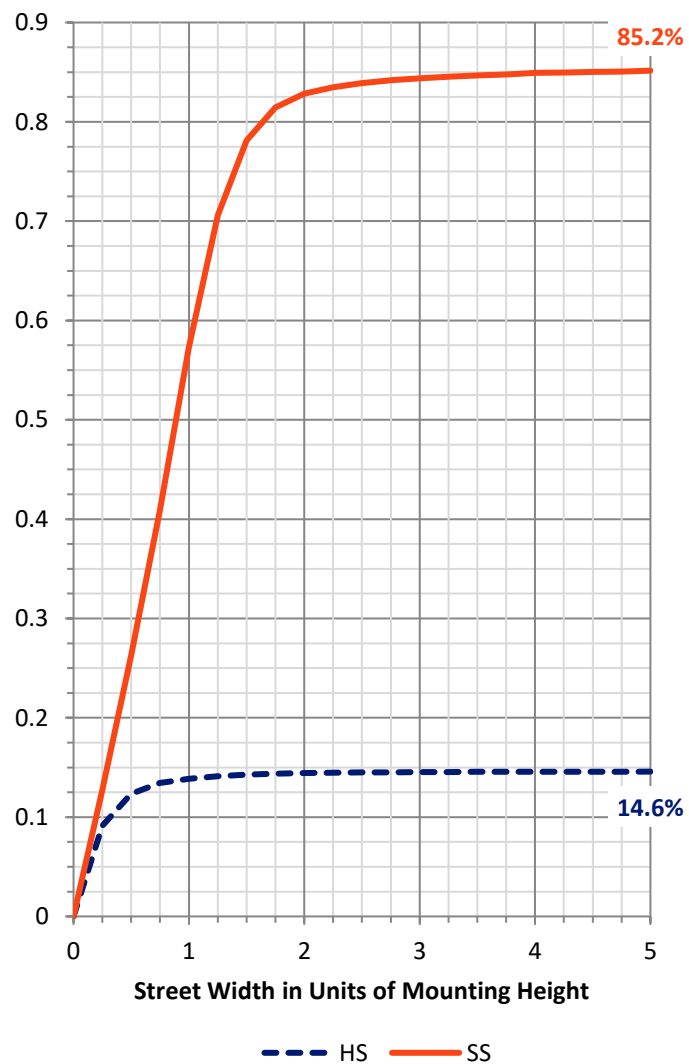
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.6	0.0	1888.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10959.4	0.0	10959.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	12848.0	0.0	12848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	1.2
10°-20°	414.5	3.2
20°-30°	721.8	5.6
30°-40°	1301.0	10.1
40°-50°	2580.3	20.1
50°-60°	3514.8	27.4
60°-70°	2805.5	21.8
70°-80°	1269.5	9.9
80°-90°	91.3	0.7
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°	12848.0	100.0
0°-180°	12848.0	100.0

Coefficient of Utilization



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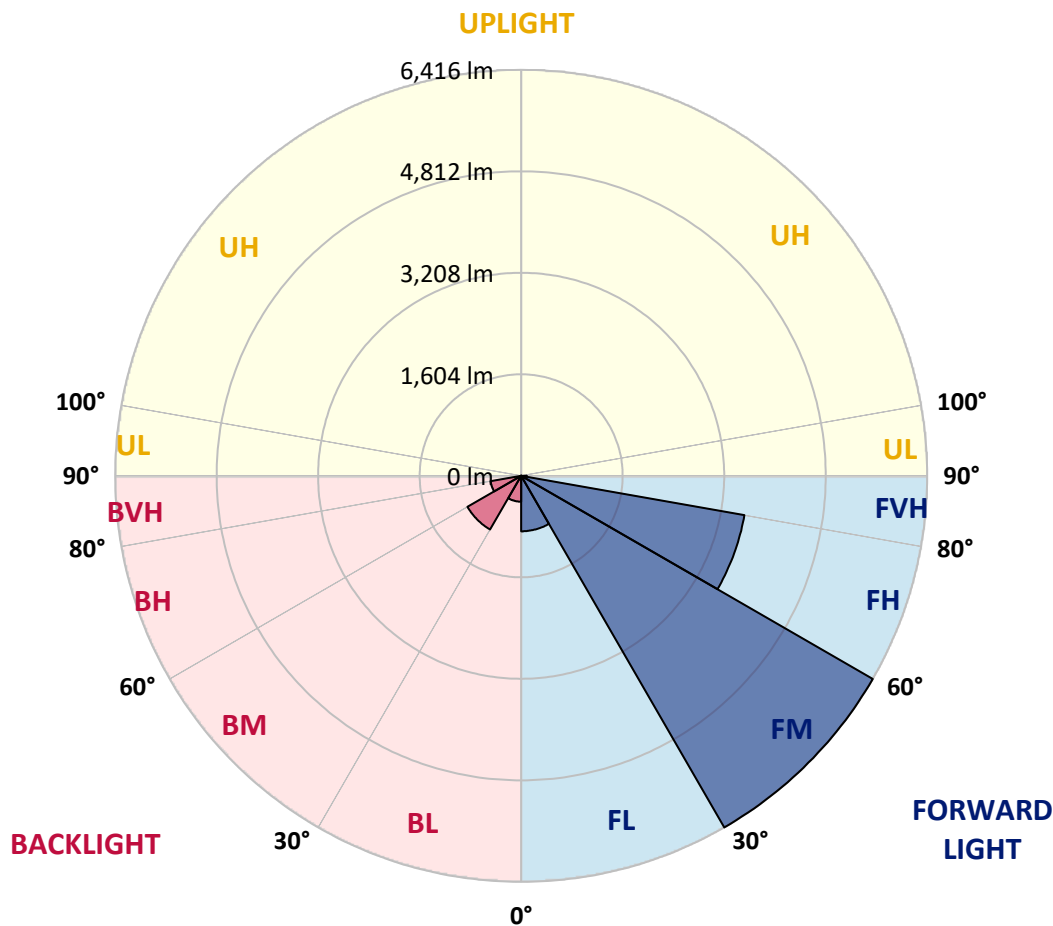
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.0	6.8			
FM	(30°-60°)	6416.0	49.9			
FH	(60°-80°)	3582.0	27.9			G2/5000
FVH	(80°-90°)	84.5	0.7			G1/100
BL	(0°-30°)	408.7	3.2	B1/500		
BM	(30°-60°)	980.0	7.6	B1/1000		
BH	(60°-80°)	493.0	3.8	B1/500		G1/500
BVH	(80°-90°)	6.8	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7
2.5°	1622.8	1618.4	1624.6	1621.9	1620.2	1616.6	1614.9	1613.1	1609.6	1606.9	1596.3
5°	1627.2	1624.6	1630.8	1636.1	1641.4	1646.7	1649.3	1652.9	1649.3	1642.3	1631.6
7.5°	1590.1	1588.3	1601.6	1617.5	1641.4	1661.7	1683.8	1696.2	1697.1	1694.4	1682.9
10°	1587.5	1583.0	1596.3	1615.7	1646.7	1682.9	1721.8	1748.3	1751.9	1763.3	1751.0
12.5°	1629.0	1624.6	1643.1	1664.4	1696.2	1734.2	1781.9	1819.0	1824.3	1840.2	1831.4
15°	1698.8	1692.6	1713.8	1741.2	1781.9	1825.2	1875.6	1909.2	1913.6	1933.1	1917.1
17.5°	1780.1	1774.0	1798.7	1827.9	1872.1	1931.3	1989.6	2026.7	2032.0	2044.4	2015.3
20°	1884.4	1876.5	1895.9	1922.4	1969.3	2040.0	2109.8	2162.9	2162.0	2162.0	2114.2
22.5°	2005.5	1993.2	2009.9	2031.2	2075.4	2161.1	2253.9	2316.7	2316.7	2291.9	2213.2
25°	2135.5	2123.1	2141.6	2161.1	2200.0	2297.2	2405.9	2483.7	2487.2	2444.8	2319.3
27.5°	2298.1	2282.2	2296.3	2319.3	2342.3	2441.3	2570.3	2660.5	2662.3	2596.8	2420.1
30°	2611.0	2565.9	2521.7	2497.0	2507.6	2605.7	2743.6	2843.5	2852.3	2762.1	2529.7
32.5°	3183.7	3174.9	3019.3	2816.1	2710.0	2782.5	2937.1	3057.4	3062.7	2946.9	2672.0
35°	4073.8	4063.2	3813.1	3425.9	3080.3	3019.3	3172.3	3314.6	3311.0	3180.2	2856.7
37.5°	5136.2	5126.5	4796.8	4278.9	3719.4	3377.3	3475.4	3624.8	3646.9	3475.4	3095.4
40°	6044.0	6007.8	5799.2	5299.8	4567.9	3971.3	3906.8	4005.8	4028.7	3825.4	3398.5
42.5°	6731.7	6700.7	6594.7	6282.6	5595.0	4849.9	4415.0	4453.0	4478.6	4234.7	3746.8
45°	7087.9	7080.8	7123.2	7094.0	6641.5	5928.2	5141.5	4983.3	4993.1	4688.1	4141.9
47.5°	7138.2	7134.7	7328.3	7602.3	7541.3	7144.4	6074.0	5644.5	5610.0	5199.9	4571.4
50°	6841.3	6834.2	7205.4	7718.9	8142.3	8166.2	7132.9	6389.6	6313.6	5729.3	5019.6
52.5°	5892.8	5891.1	6501.0	7355.7	8353.6	9060.7	8179.5	7208.1	7080.8	6289.7	5493.3
55°	4534.3	4567.0	5266.2	6276.5	7968.2	9491.1	9119.0	8116.7	7921.4	6853.6	5930.0
57.5°	3212.0	3259.8	3951.0	4850.7	6773.2	9236.6	9754.5	9027.1	8816.7	7415.8	6372.8
60°	1725.3	1767.8	2459.8	3533.8	5039.0	8287.3	10089.5	9817.3	9618.4	7949.6	6772.3
62.5°	1028.0	1042.1	1328.5	2281.3	3408.3	6331.3	9947.2	10419.2	10255.7	8397.8	7119.7
65°	738.0	740.7	884.8	1393.0	2069.2	3846.7	8949.3	10707.4	10657.0	8735.4	7376.9
67.5°	621.4	619.6	679.7	925.4	1409.8	1926.9	6858.9	10299.9	10513.8	8949.3	7522.7
70°	533.0	535.6	606.3	677.9	1059.8	1090.7	3410.0	8967.9	9424.0	9005.9	7513.9
72.5°	396.9	405.7	471.1	617.8	799.9	750.4	1177.3	6649.5	7474.1	8485.3	7124.1
75°	280.2	284.6	331.5	519.7	596.6	546.2	601.0	3437.4	4494.5	6505.4	5831.0
77.5°	215.7	223.6	251.0	363.3	587.8	383.6	367.7	1189.7	1827.9	3929.7	3997.8
80°	116.7	130.8	181.2	262.5	412.8	271.4	182.1	473.8	619.6	1837.6	1541.5
82.5°	60.1	67.2	126.4	189.2	235.1	236.9	90.2	197.1	255.4	567.5	211.2
85°	23.9	29.2	84.9	104.3	121.1	116.7	40.7	79.5	91.9	157.3	64.5
87.5°	5.3	8.8	30.9	23.9	23.0	24.7	9.7	18.6	17.7	18.6	11.5
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°	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7
2.5°	1595.4	1591.9	1582.2	1571.5	1559.2	1552.1	1547.7	1546.8	1540.6	1536.2	1540.6
5°	1621.9	1618.4	1599.8	1577.7	1553.9	1535.3	1517.6	1501.7	1478.7	1474.3	1472.5
7.5°	1675.0	1665.2	1635.2	1605.1	1560.1	1506.1	1440.7	1365.6	1298.4	1278.1	1268.4
10°	1740.4	1727.1	1689.1	1636.1	1536.2	1389.5	1231.2	1084.5	967.9	935.1	922.8
12.5°	1814.6	1803.1	1752.7	1654.6	1436.3	1170.3	928.1	746.0	632.9	604.6	596.6
15°	1903.0	1886.2	1816.4	1626.3	1257.8	889.2	637.3	529.4	488.8	483.5	478.2
17.5°	1996.7	1969.3	1872.9	1524.7	1017.3	632.0	492.3	461.4	443.7	438.4	435.8
20°	2082.4	2047.1	1906.5	1370.9	760.1	492.3	441.1	420.7	404.8	398.6	395.1
22.5°	2168.2	2117.8	1906.5	1161.4	570.1	436.6	404.8	386.3	367.7	359.7	355.3
25°	2257.4	2190.3	1872.9	928.1	458.7	400.4	370.3	350.0	334.1	324.4	320.8
27.5°	2344.1	2251.2	1796.1	707.1	408.4	368.6	338.5	319.1	304.1	297.0	297.0
30°	2426.3	2311.4	1688.2	536.5	375.7	337.6	309.4	292.6	277.5	270.5	271.4
32.5°	2537.6	2387.4	1573.3	440.2	347.4	308.5	282.8	266.9	253.7	248.4	248.4
35°	2692.3	2499.6	1474.3	432.2	323.5	284.6	259.0	244.0	230.7	226.3	226.3
37.5°	2911.5	2680.8	1422.2	485.3	304.1	263.4	239.5	223.6	211.2	207.7	206.8
40°	3182.0	2926.5	1450.5	538.3	290.8	244.8	221.9	205.9	195.3	190.9	190.0
42.5°	3502.8	3229.7	1606.9	578.9	282.0	228.9	205.1	187.4	180.3	178.5	178.5
45°	3871.4	3562.9	1846.4	622.3	267.8	213.9	188.3	175.0	169.7	168.8	167.9
47.5°	4290.4	3928.9	2124.0	676.2	253.7	199.8	175.0	166.2	161.8	160.0	160.0
50°	4705.8	4297.4	2409.5	706.2	242.2	186.5	164.4	157.3	153.8	152.9	152.9
52.5°	5140.7	4676.6	2640.2	677.9	232.5	175.9	155.6	150.3	146.7	145.8	145.8
55°	5555.2	4983.3	2679.9	575.4	213.0	165.3	145.8	143.2	138.8	138.8	137.9
57.5°	5912.3	5137.1	2398.9	422.5	193.6	149.4	136.1	133.5	129.9	129.0	128.2
60°	6240.2	5092.9	1851.7	284.6	172.4	133.5	123.7	122.0	118.4	114.0	113.1
62.5°	6424.9	4898.5	1266.6	185.6	151.1	116.7	109.6	108.7	100.8	91.9	90.2
65°	6494.8	4499.0	790.2	135.2	126.4	99.9	94.6	92.8	81.3	71.6	70.7
67.5°	6433.8	3841.4	398.6	106.9	99.9	83.1	77.8	77.8	69.8	61.0	60.1
70°	6189.8	2879.7	167.9	85.7	76.9	63.6	63.6	67.2	59.2	49.5	48.6
72.5°	5660.4	1937.5	89.3	65.4	57.5	45.1	52.1	54.8	46.8	37.1	37.1
75°	4499.8	1181.8	61.9	48.6	36.2	31.8	39.8	41.5	31.8	24.7	23.9
77.5°	3077.7	678.8	41.5	30.9	23.0	18.6	27.4	25.6	16.8	11.5	12.4
80°	1351.5	282.8	23.9	14.1	8.8	7.1	9.7	7.1	5.3	3.5	3.5
82.5°	158.2	66.3	8.8	5.3	3.5	1.8	0.9	0.0	0.0	0.0	0.0
85°	32.7	8.0	4.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	1.8	0.9	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)