

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: P652219

Luminaire Tested: **GALN-SA2B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5617 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

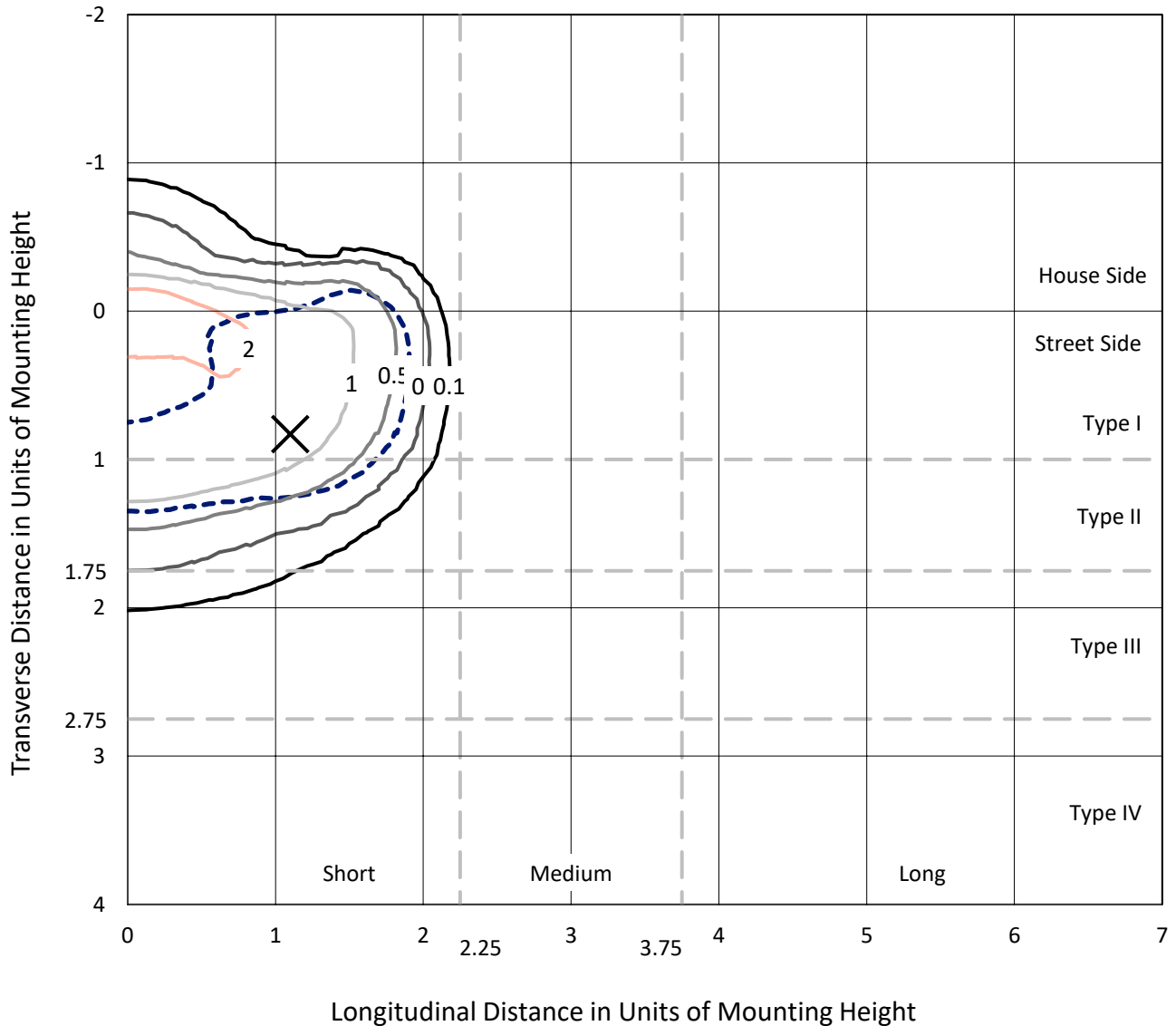
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

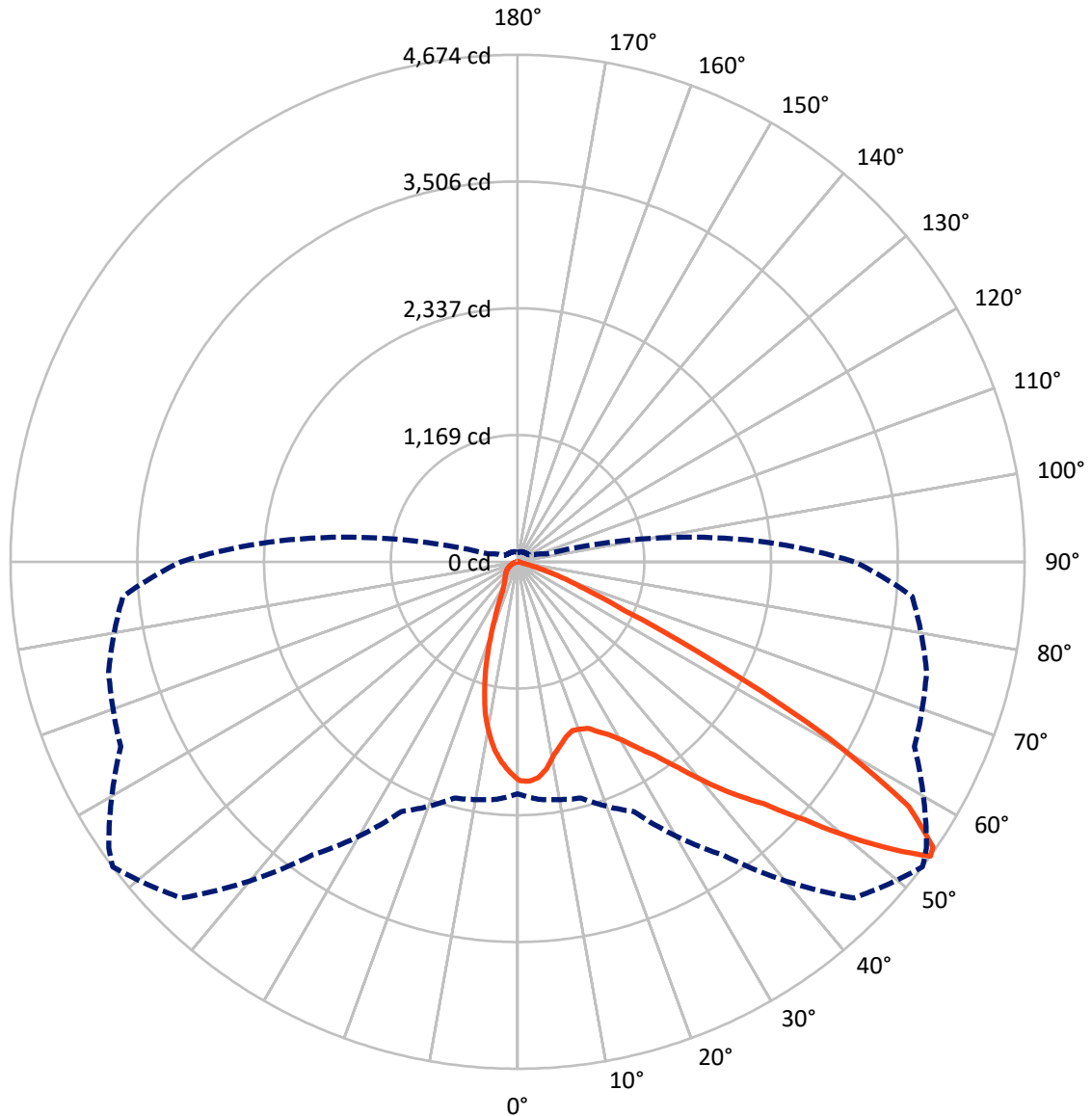
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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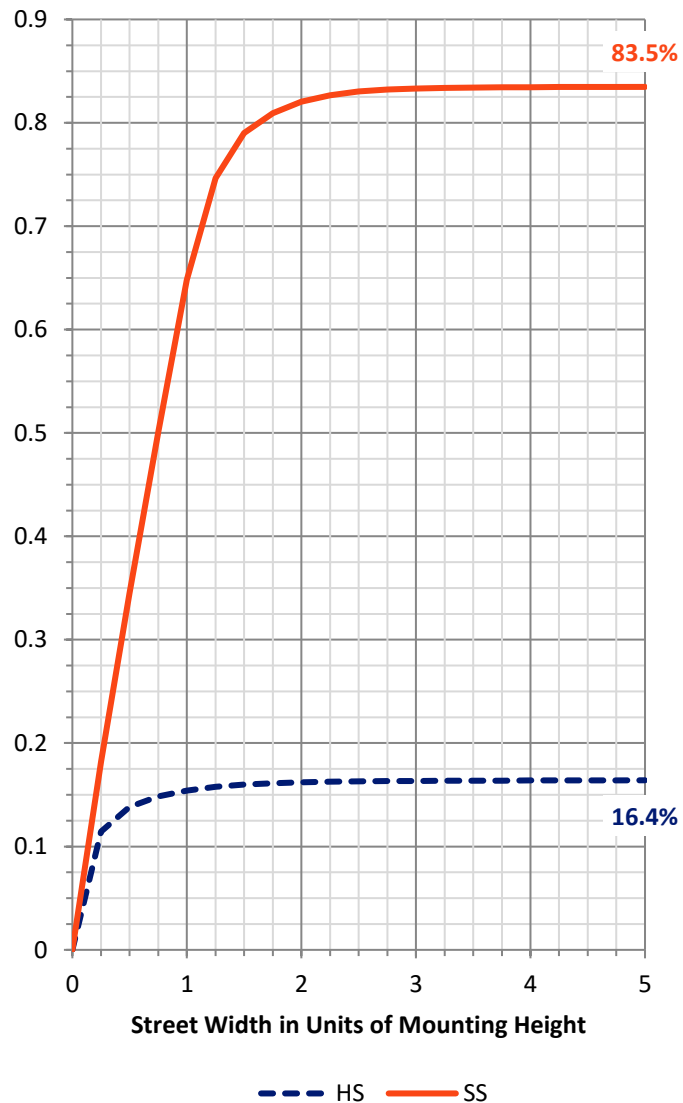
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.3	0.0	929.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4687.7	0.0	4687.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	5617.0	0.0	5617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	3.1
10°-20°	396.9	7.1
20°-30°	564.0	10.0
30°-40°	870.4	15.5
40°-50°	1364.8	24.3
50°-60°	1585.4	28.2
60°-70°	599.1	10.7
70°-80°	57.0	1.0
80°-90°	6.4	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°	5617.0	100.0
0°-180°	5617.0	100.0

Coefficient of Utilization

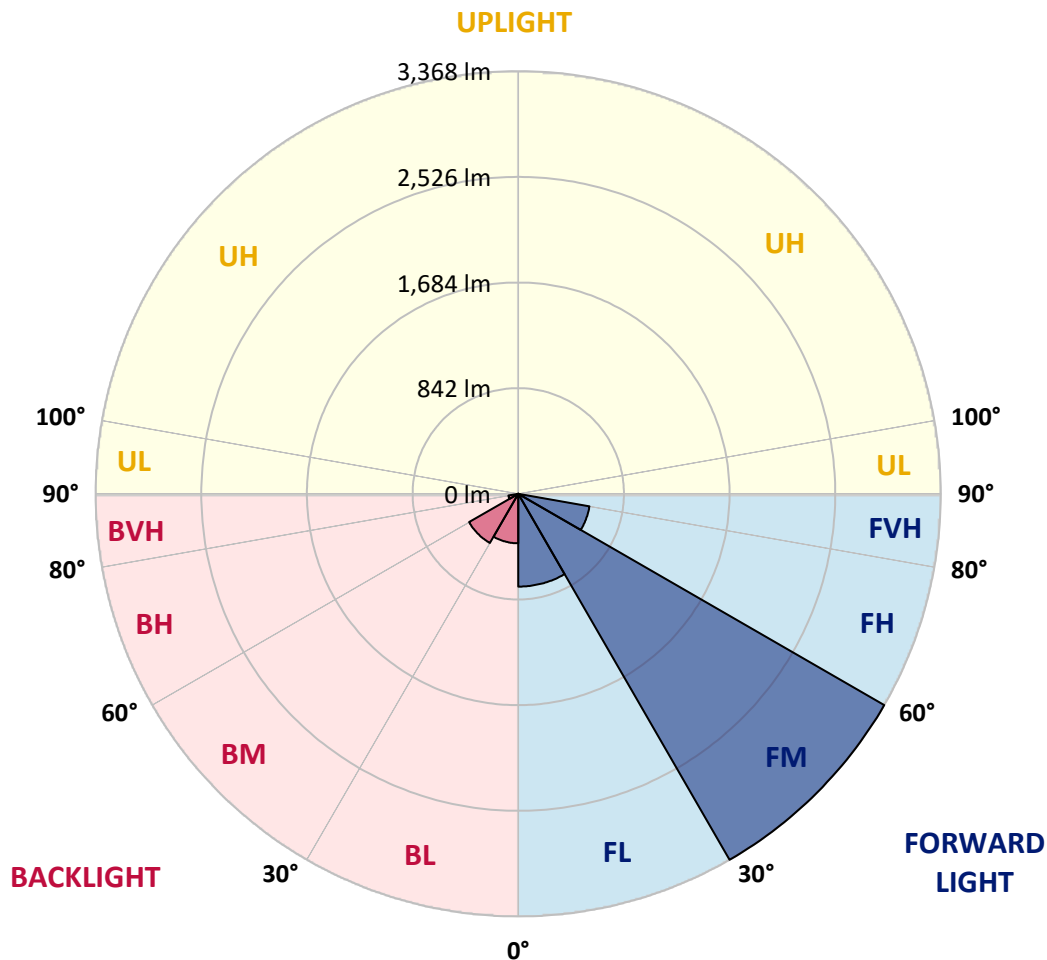


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	739.6	13.2			
FM (30°-60°)	3368.4	60.0			
FH (60°-80°)	576.4	10.3			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	394.4	7.0	B1/500		
BM (30°-60°)	452.3	8.1	B1/1000		
BH (60°-80°)	79.6	1.4	B0/110		G0/110
BVH (80°-90°)	3.1	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6
2.5°	2007.0	1989.3	2007.0	2009.1	2021.8	2033.2	2025.9	2042.6	2033.2	2022.8	2019.7
5°	1844.9	1869.0	1870.0	1907.6	1899.3	1968.4	1998.7	1990.3	2041.6	2038.5	2031.2
7.5°	1699.4	1690.0	1702.6	1746.5	1802.0	1881.5	1925.5	1924.4	1997.6	2050.0	2044.7
10°	1564.4	1563.4	1589.6	1624.1	1671.2	1754.9	1815.6	1845.9	1960.0	2039.5	2051.0
12.5°	1473.4	1469.2	1497.5	1525.7	1600.0	1664.9	1742.3	1757.0	1887.8	2002.9	2021.8
15°	1413.7	1423.1	1425.2	1479.7	1526.8	1612.5	1673.3	1703.6	1854.3	1973.6	2045.8
17.5°	1403.3	1415.8	1416.9	1461.9	1512.1	1584.3	1637.7	1678.5	1826.1	1988.2	2046.8
20°	1424.2	1416.9	1423.1	1451.4	1500.6	1569.6	1647.1	1660.7	1816.6	1995.6	2058.3
22.5°	1483.9	1481.8	1466.0	1489.1	1523.6	1595.8	1669.0	1690.0	1843.8	2033.2	2067.8
25°	1549.8	1561.3	1546.7	1543.5	1567.5	1638.8	1736.1	1763.2	1934.9	2101.2	2097.0
27.5°	1673.3	1661.7	1661.7	1647.1	1640.8	1675.4	1808.2	1853.2	2036.4	2189.1	2130.6
30°	1791.5	1804.0	1794.7	1799.9	1758.0	1754.9	1910.8	1966.3	2216.4	2323.1	2201.7
32.5°	1978.8	1962.1	1977.8	1964.2	1908.7	1852.2	2050.0	2107.5	2434.0	2476.9	2308.5
35°	2134.7	2127.4	2194.4	2192.3	2102.3	2046.8	2197.5	2283.3	2585.7	2661.1	2434.0
37.5°	2356.6	2343.0	2419.4	2456.0	2375.4	2292.7	2408.9	2508.4	2727.0	2808.7	2562.8
40°	2584.7	2619.2	2721.8	2782.5	2696.7	2586.8	2667.4	2697.8	2821.2	2904.9	2650.7
42.5°	2873.5	2923.7	3028.4	3080.8	3073.4	2954.1	2930.0	2929.0	2889.3	2877.7	2715.5
45°	3150.8	3132.0	3293.2	3407.2	3499.3	3464.8	3183.3	3151.9	2997.0	2918.5	2732.2
47.5°	3272.2	3265.9	3375.9	3578.9	3892.7	3935.7	3551.6	3430.3	3179.1	3090.2	2823.3
50°	3115.2	3147.7	3256.5	3481.5	3962.9	4290.4	4003.7	3840.4	3391.5	3299.4	3038.9
52.5°	2602.5	2624.5	2728.1	3013.7	3724.3	4499.7	4436.9	4342.8	3781.9	3629.1	3414.5
54°	2140.0	2198.5	2255.1	2541.8	3299.4	4383.5	4674.4	4602.3	4036.1	3903.2	3651.0
55°	1863.7	1898.2	1939.1	2224.8	3005.4	4186.8	4647.3	4653.5	4206.7	3989.0	3810.1
57.5°	1361.4	1385.5	1343.7	1470.2	2063.6	3399.9	4250.7	4420.2	4436.9	4117.8	3907.5
60°	1040.1	1050.7	1003.6	1023.4	1282.9	2333.6	3287.9	3492.0	4002.7	3598.7	3309.9
62.5°	806.8	808.9	807.9	842.4	884.2	1372.9	2056.2	2237.3	2759.5	2555.4	2247.7
65°	594.4	585.0	601.7	706.4	754.5	863.3	1083.0	1214.9	1499.6	1266.2	905.2
67.5°	385.1	388.2	404.9	525.3	646.7	662.4	666.6	656.1	657.2	362.1	227.1
70°	231.3	236.5	231.3	297.2	462.6	475.1	434.3	423.8	330.7	85.8	84.8
72.5°	137.1	129.8	116.1	127.7	192.5	230.2	207.2	206.1	129.8	50.2	50.2
75°	57.5	52.3	42.9	38.7	51.3	49.2	49.2	44.0	34.6	33.5	31.4
77.5°	11.5	11.5	8.4	9.4	12.5	14.6	17.8	17.8	20.9	20.9	19.8
80°	0.0	1.0	3.1	6.3	9.4	13.6	15.7	15.7	17.8	17.8	14.6
82.5°	0.0	1.0	3.1	6.3	8.4	12.5	15.7	15.7	17.8	18.8	15.7
85°	0.0	1.0	3.1	5.2	8.4	10.4	10.4	9.4	7.3	6.3	4.2
87.5°	0.0	0.0	1.0	2.1	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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°	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6
2.5°	2027.0	2025.9	2000.8	1960.0	1950.5	1916.1	1911.8	1890.9	1902.4	1863.7	1859.5
5°	2010.2	1997.6	1967.4	1941.2	1864.7	1810.3	1767.4	1715.1	1684.8	1690.0	1670.1
7.5°	2034.3	2001.8	1948.5	1857.4	1764.3	1669.0	1617.8	1511.0	1472.3	1414.8	1406.4
10°	2009.1	1985.1	1902.4	1751.7	1623.0	1486.0	1365.6	1247.4	1157.4	1118.6	1110.3
12.5°	2007.0	1965.2	1827.1	1659.6	1473.4	1276.6	1101.9	954.4	865.4	815.2	803.7
15°	1974.7	1924.4	1742.3	1517.3	1259.9	1015.1	824.6	682.3	614.3	585.0	593.3
17.5°	1977.8	1902.4	1657.5	1366.6	1049.6	745.0	563.0	489.7	472.0	479.3	479.3
20°	1974.7	1853.2	1555.0	1193.0	803.7	517.0	413.4	387.2	398.7	421.7	416.5
22.5°	1957.9	1830.3	1460.8	1009.8	591.2	383.0	331.7	332.8	350.5	378.8	385.1
25°	1970.5	1779.0	1341.6	824.6	431.1	305.5	287.8	295.1	313.9	334.9	339.0
27.5°	1961.0	1742.3	1217.0	640.4	315.0	262.6	261.6	270.0	278.4	294.0	294.0
30°	1971.5	1708.8	1094.6	476.2	259.5	240.7	236.5	242.8	251.1	254.3	253.2
32.5°	2010.2	1683.8	953.3	355.8	229.2	219.8	219.8	219.8	218.7	222.9	224.0
35°	2095.0	1687.9	828.8	275.2	209.3	201.9	198.8	194.6	192.5	194.6	195.7
37.5°	2187.1	1685.8	700.0	234.4	194.6	188.4	181.1	174.8	173.8	175.8	172.7
40°	2227.9	1705.7	580.8	210.3	181.1	173.8	162.2	156.9	158.0	160.1	158.0
42.5°	2283.3	1712.0	503.3	191.5	168.5	156.9	149.6	143.4	142.3	145.5	144.4
45°	2282.3	1676.4	421.7	181.1	156.9	144.4	135.0	129.8	129.8	131.9	132.9
47.5°	2349.2	1671.2	362.1	171.6	148.6	136.1	124.6	120.3	119.3	119.3	117.2
50°	2505.2	1744.4	316.0	161.1	138.1	126.7	117.2	111.9	107.8	105.7	104.6
52.5°	2809.7	1972.6	280.5	148.6	126.7	117.2	108.8	104.6	99.4	94.2	93.1
54°	3104.8	2208.0	278.4	138.1	117.2	110.9	103.6	101.5	95.2	87.9	85.8
55°	3237.7	2345.0	285.7	129.8	110.9	106.7	100.5	98.4	92.1	83.7	82.7
57.5°	3347.6	2398.4	281.5	107.8	100.5	99.4	94.2	91.1	83.7	72.2	70.1
60°	2694.6	1813.4	201.9	95.2	92.1	90.0	85.8	83.7	74.3	61.7	60.7
62.5°	1702.6	1043.3	128.7	83.7	80.6	77.5	72.2	70.1	61.7	49.2	46.0
65°	725.2	432.2	86.9	74.3	69.0	63.8	59.6	56.5	49.2	36.7	35.6
67.5°	188.4	153.8	72.2	64.8	57.5	50.2	47.1	41.9	33.5	25.1	24.1
70°	84.8	77.5	60.7	54.4	46.0	38.7	34.6	29.3	22.0	16.7	15.7
72.5°	50.2	49.2	46.0	40.8	34.6	29.3	25.1	19.8	14.6	9.4	9.4
75°	31.4	30.4	31.4	28.3	24.1	22.0	18.8	13.6	8.4	4.2	4.2
77.5°	18.8	18.8	18.8	17.8	16.7	16.7	13.6	8.4	4.2	1.0	1.0
80°	14.6	14.6	15.7	14.6	14.6	14.6	11.5	6.3	2.1	0.0	0.0
82.5°	14.6	15.7	17.8	16.7	14.6	12.5	10.4	6.3	2.1	0.0	0.0
85°	4.2	3.1	5.2	7.3	10.4	9.4	7.3	5.2	2.1	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	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)