

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: P527646

Luminaire Tested: **GALN-SA2C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9579 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108
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



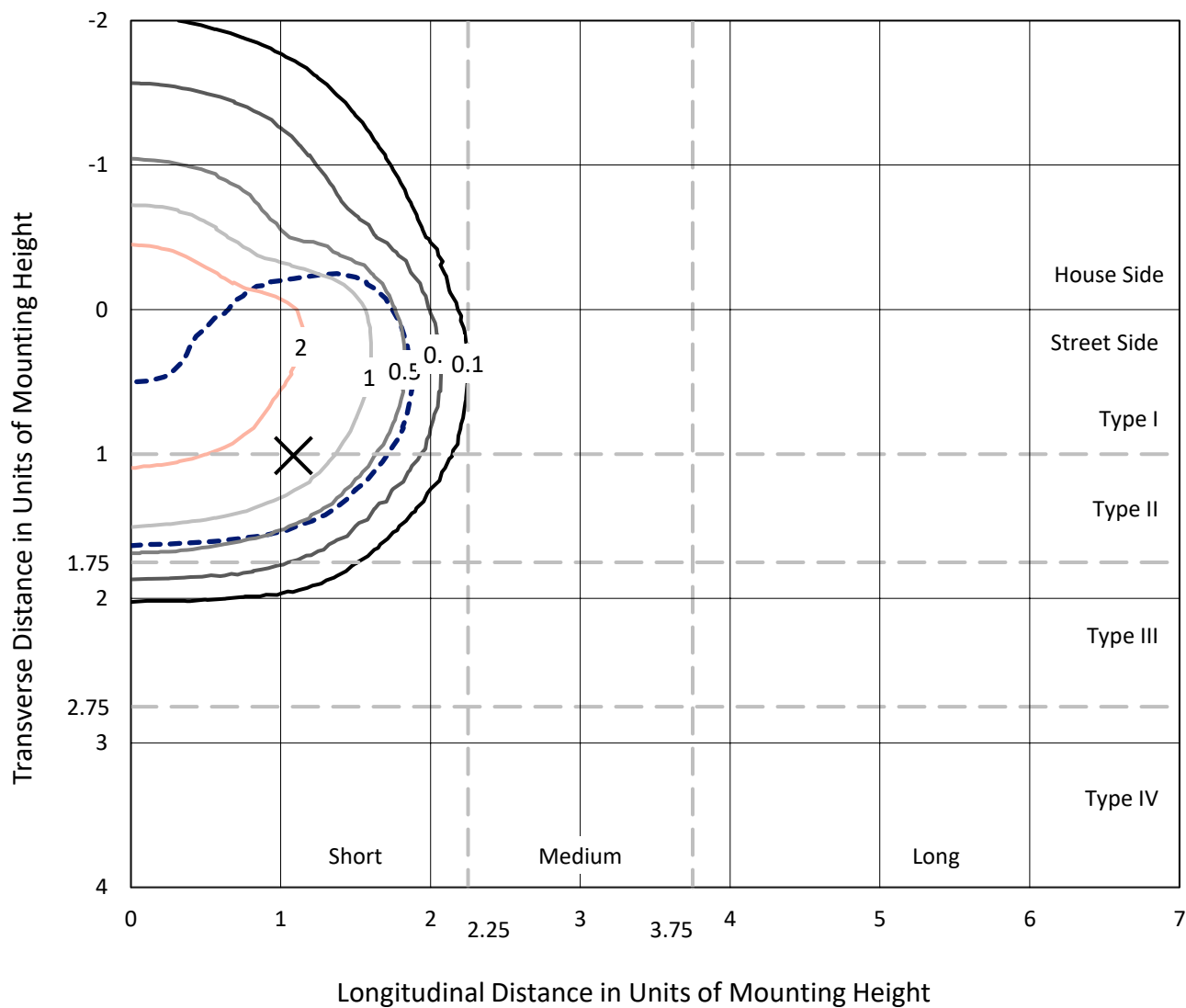
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

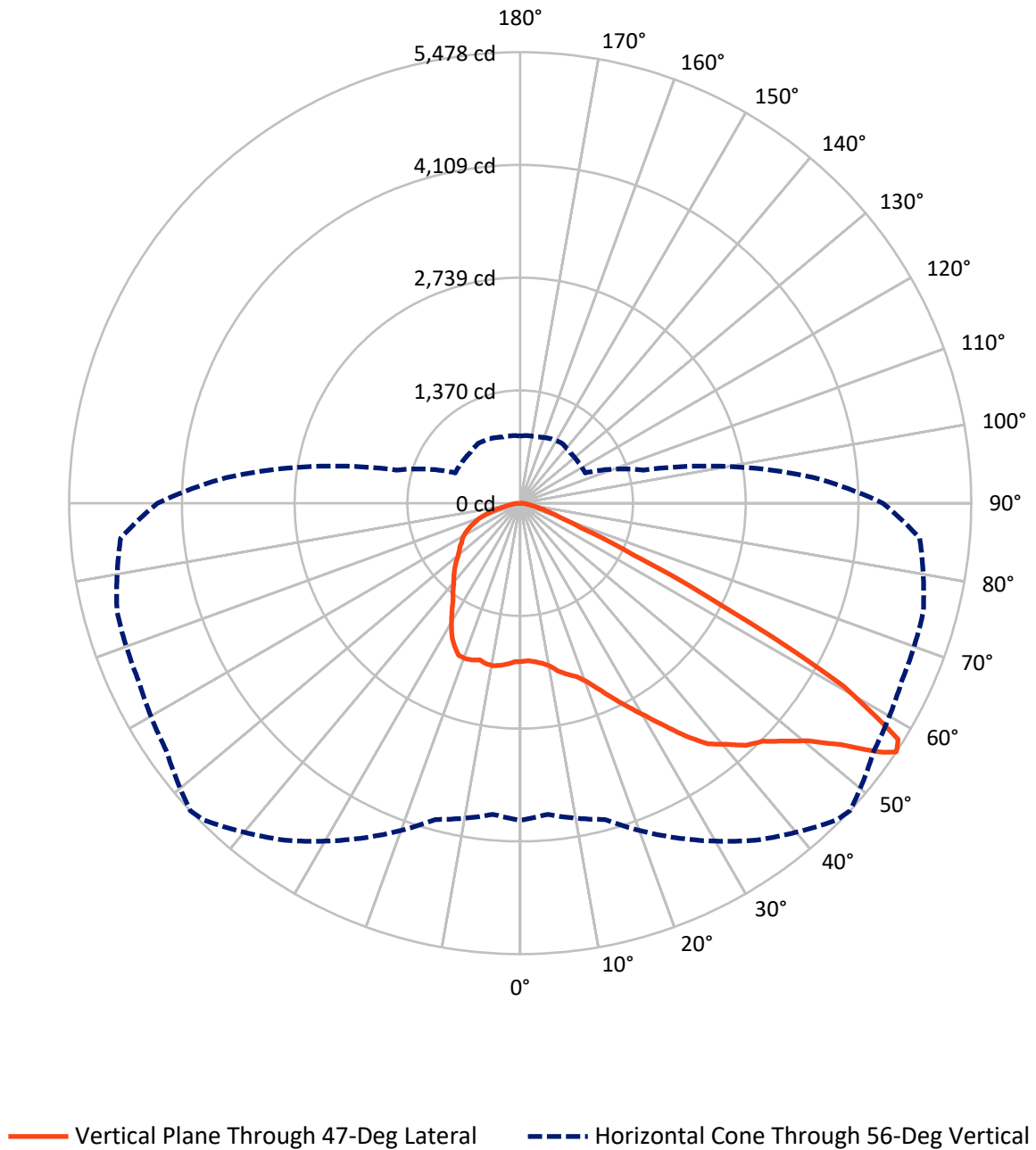
--- 1/2 Max cd



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



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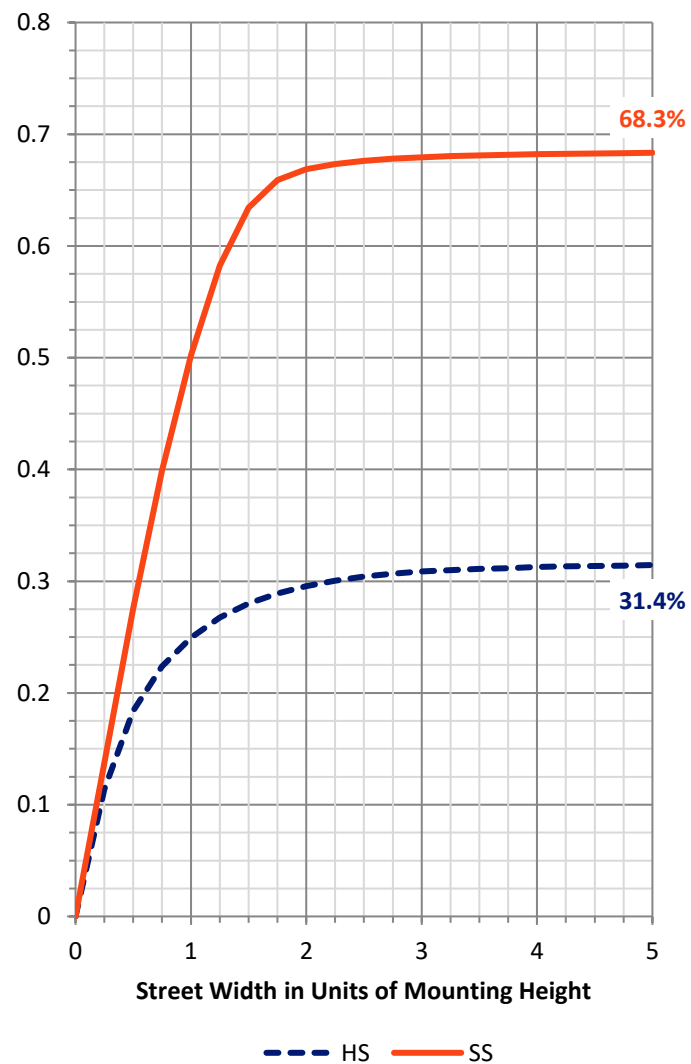
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3035.5	0.0	3035.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6543.5	0.0	6543.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	9579.0	0.0	9579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	2.0
10°-20°	591.4	6.2
20°-30°	1045.5	10.9
30°-40°	1570.3	16.4
40°-50°	2155.0	22.5
50°-60°	2567.4	26.8
60°-70°	1098.7	11.5
70°-80°	310.9	3.2
80°-90°	52.3	0.5
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°	9579.0	100.0
0°-180°	9579.0	100.0

Coefficient of Utilization



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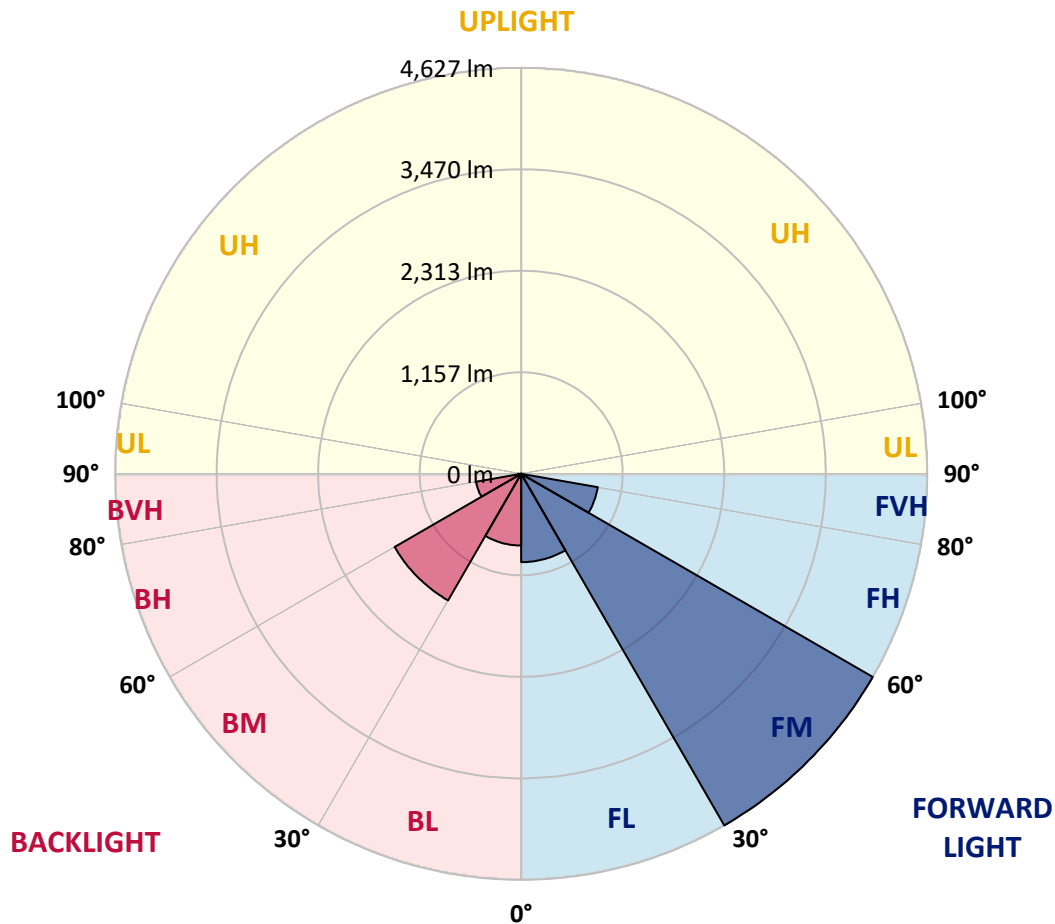
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1007.1	10.5			
FM	(30°-60°)	4626.9	48.3			
FH	(60°-80°)	887.4	9.3			G1/1800
FVH	(80°-90°)	22.2	0.2			G1/100
BL	(0°-30°)	817.3	8.5	B2/1000		
BM	(30°-60°)	1665.8	17.4	B2/2500		
BH	(60°-80°)	522.3	5.5	B2/1000		G2/1000
BVH	(80°-90°)	30.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1
2.5°	1916.8	1913.1	1910.7	1930.2	1922.9	1924.1	1916.8	1924.1	1929.0	1918.0	1933.9
5°	1913.1	1924.1	1914.4	1920.5	1936.3	1931.5	1936.3	1951.0	1947.3	1943.7	1938.8
7.5°	1947.3	1948.6	1955.9	1958.3	1963.2	1958.3	1965.7	1979.1	1975.4	1954.7	1957.1
10°	1996.2	1998.7	1999.9	2013.3	2021.9	2023.1	2014.5	2002.3	2001.1	2029.2	2009.6
12.5°	2052.4	2046.3	2061.0	2065.8	2075.6	2086.6	2097.6	2072.0	2087.8	2089.1	2065.8
15°	2134.3	2140.4	2123.3	2123.3	2126.9	2128.1	2158.7	2146.5	2144.0	2130.6	2140.4
17.5°	2256.4	2214.9	2213.7	2196.6	2194.1	2203.9	2214.9	2224.7	2257.6	2230.8	2178.2
20°	2345.6	2355.4	2320.0	2299.2	2302.8	2324.8	2313.8	2357.8	2381.0	2337.1	2285.7
22.5°	2503.2	2470.2	2478.8	2432.3	2436.0	2459.2	2458.0	2503.2	2516.6	2447.0	2372.5
25°	2609.5	2600.9	2608.3	2571.6	2576.5	2594.8	2624.1	2698.7	2676.7	2599.7	2427.5
27.5°	2764.6	2747.5	2741.4	2728.0	2723.1	2772.0	2806.2	2885.6	2869.7	2757.3	2525.2
30°	2923.5	2912.5	2918.6	2863.6	2883.1	2987.0	2996.8	3105.5	3098.2	2900.2	2633.9
32.5°	3033.4	3039.5	3050.5	3020.0	3106.7	3189.8	3222.8	3346.2	3352.3	3145.8	2844.0
35°	3210.5	3189.8	3195.9	3231.3	3271.6	3423.1	3476.9	3558.7	3610.0	3403.6	3045.6
37.5°	3321.7	3343.7	3318.1	3374.3	3479.3	3661.3	3710.2	3794.5	3848.3	3657.7	3320.5
40°	3495.2	3459.8	3478.1	3518.4	3625.9	3862.9	3849.5	3936.2	3953.3	3873.9	3577.0
42.5°	3682.1	3665.0	3639.4	3731.0	3821.4	3993.6	4020.5	3980.2	4066.9	4085.3	3943.6
45°	3905.7	3926.4	3930.1	3932.6	4012.0	4162.2	4125.6	4090.2	4190.3	4323.5	4170.8
47.5°	4113.4	4047.4	4095.0	4161.0	4273.4	4274.6	4317.4	4233.1	4339.4	4457.9	4376.0
50°	4183.0	4151.2	4214.8	4339.4	4512.8	4531.2	4536.1	4416.3	4471.3	4565.4	4446.9
52.5°	4156.1	4145.1	4307.6	4500.6	4754.7	4847.6	4872.0	4724.2	4754.7	4712.0	4603.3
55°	4027.8	4060.8	4224.5	4617.9	5007.6	5294.7	5341.1	5154.2	4960.0	4993.0	4873.2
56°	3851.9	3794.5	3977.8	4484.8	4996.6	5440.1	5478.0	5244.6	5112.7	5069.9	4870.8
57.5°	3268.0	3193.4	3434.1	4035.2	4719.3	5385.1	5413.2	5282.5	5087.0	5000.3	4515.3
60°	1913.1	1949.8	2255.2	2783.0	3640.6	4415.1	4509.2	4604.5	4473.8	4085.3	3360.8
62.5°	923.6	900.4	1119.0	1595.5	2218.6	2818.4	2790.3	3057.8	3204.4	2902.7	2122.0
65°	483.8	481.3	610.8	871.1	1219.2	1480.7	1506.3	1650.5	1852.1	1495.3	1077.5
67.5°	355.5	365.3	430.0	612.1	784.3	800.2	796.5	868.6	888.2	751.3	662.1
70°	278.5	283.4	331.1	465.5	584.0	522.9	511.9	520.4	577.8	602.3	573.0
72.5°	201.6	206.5	246.8	314.0	365.3	356.7	364.1	411.7	482.6	508.2	477.7
75°	134.4	138.0	160.0	191.8	216.2	233.3	246.8	301.8	367.7	382.4	367.7
77.5°	92.8	96.5	111.2	135.6	138.0	149.0	153.9	179.6	219.9	238.2	228.5
80°	52.5	52.5	59.9	69.6	85.5	100.2	102.6	123.4	141.7	153.9	156.4
82.5°	24.4	25.7	31.8	42.8	56.2	69.6	72.1	85.5	99.0	111.2	114.8
85°	12.2	13.4	18.3	25.7	34.2	41.5	40.3	41.5	44.0	41.5	42.8
87.5°	3.7	3.7	4.9	6.1	4.9	6.1	6.1	7.3	8.6	9.8	11.0
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°	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1
2.5°	1935.1	1938.8	1914.4	1937.6	1929.0	1927.8	1944.9	1942.5	1948.6	1946.1	1931.5
5°	1936.3	1927.8	1953.5	1930.2	1941.2	1964.4	1948.6	1985.2	1966.9	1979.1	1952.2
7.5°	1974.2	1976.7	1971.8	1981.5	1976.7	1987.7	1979.1	1987.7	1973.0	1974.2	1998.7
10°	2007.2	1999.9	2008.4	1996.2	2004.8	2001.1	1981.5	1975.4	1980.3	1974.2	1990.1
12.5°	2068.3	2054.8	2048.7	2034.1	2024.3	1987.7	1957.1	1940.0	1963.2	1966.9	1959.6
15°	2130.6	2131.8	2103.7	2070.7	2009.6	1954.7	1962.0	1968.1	1968.1	1977.9	1959.6
17.5°	2169.7	2169.7	2144.0	2078.1	2015.8	1984.0	1976.7	1957.1	1940.0	1937.6	1936.3
20°	2238.1	2217.3	2158.7	2076.8	2013.3	1998.7	1943.7	1897.3	1861.8	1849.6	1848.4
22.5°	2316.3	2263.8	2181.9	2079.3	2009.6	1988.9	1886.3	1816.6	1753.1	1726.2	1729.9
25°	2388.4	2304.1	2195.3	2068.3	1996.2	1896.0	1781.2	1684.7	1618.7	1596.7	1585.7
27.5°	2438.5	2346.8	2195.3	2078.1	1946.1	1792.2	1674.9	1551.5	1494.1	1479.4	1481.9
30°	2505.6	2400.6	2233.2	2057.3	1845.9	1657.8	1517.3	1436.7	1402.5	1390.3	1398.8
32.5°	2663.2	2541.1	2285.7	2007.2	1727.4	1523.4	1409.8	1364.6	1314.5	1290.1	1281.5
35°	2834.3	2674.2	2337.1	1922.9	1594.3	1401.3	1330.4	1288.9	1229.0	1202.1	1207.0
37.5°	3076.2	2845.3	2340.7	1783.6	1450.1	1332.8	1268.1	1203.3	1154.5	1112.9	1100.7
40°	3402.4	3078.6	2332.2	1637.0	1334.1	1252.2	1204.6	1123.9	1069.0	1039.6	1045.7
42.5°	3689.4	3352.3	2296.7	1470.9	1229.0	1197.2	1143.5	1064.1	1010.3	979.8	977.3
45°	3931.3	3553.8	2229.5	1329.2	1141.0	1136.2	1073.8	1012.8	970.0	941.9	954.1
47.5°	4154.9	3716.3	2128.1	1187.5	1060.4	1070.2	1010.3	972.4	945.6	919.9	918.7
50°	4235.5	3713.9	2039.0	1070.2	995.7	990.8	988.3	948.0	919.9	897.9	907.7
52.5°	4369.9	3755.4	1942.5	989.6	937.0	938.2	946.8	917.5	885.7	872.3	884.5
55°	4562.9	3761.5	1729.9	895.5	888.2	896.7	896.7	877.2	850.3	839.3	833.2
56°	4405.3	3579.5	1551.5	871.1	863.7	863.7	886.9	864.9	832.0	823.4	816.1
57.5°	4063.3	3136.0	1298.6	841.7	830.7	847.8	860.1	836.8	806.3	794.1	801.4
60°	2802.5	2122.0	976.1	778.2	778.2	806.3	816.1	781.9	768.4	767.2	757.4
62.5°	1635.8	1236.3	763.5	720.8	723.2	746.4	753.8	734.2	717.1	737.9	747.7
65°	867.4	737.9	654.8	659.7	660.9	679.2	711.0	709.8	708.6	714.7	715.9
67.5°	627.9	613.3	595.0	590.1	592.5	605.9	637.7	662.1	660.9	646.3	635.3
70°	559.5	538.8	527.8	529.0	519.2	535.1	560.7	576.6	548.5	531.4	524.1
72.5°	465.5	459.3	452.0	453.2	433.7	430.0	400.7	400.7	393.4	388.5	397.0
75°	355.5	353.1	356.7	350.6	329.9	307.9	290.8	274.9	250.4	240.7	235.8
77.5°	224.8	232.1	240.7	227.2	218.7	202.8	185.7	169.8	150.3	139.3	139.3
80°	152.7	158.8	164.9	162.5	152.7	138.0	124.6	107.5	94.1	85.5	84.3
82.5°	116.1	120.9	129.5	119.7	110.0	97.7	86.7	74.5	62.3	52.5	52.5
85°	41.5	47.6	52.5	57.4	61.1	62.3	53.8	44.0	35.4	28.1	26.9
87.5°	11.0	12.2	13.4	12.2	12.2	12.2	13.4	12.2	11.0	8.6	8.6
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)