

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: P527282

Luminaire Tested: **GALN-SA2B-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527282
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-SA2B-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 9089 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

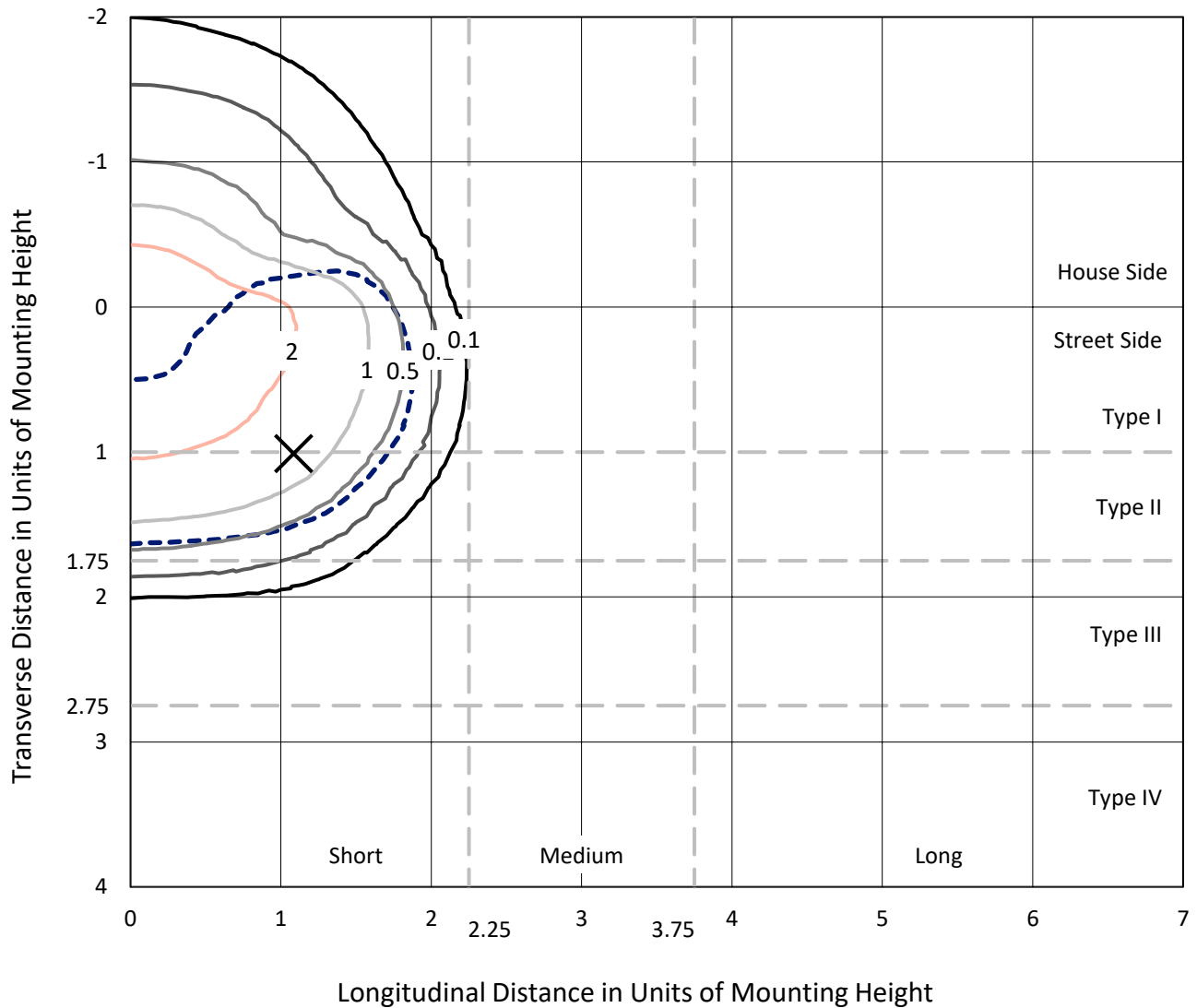
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

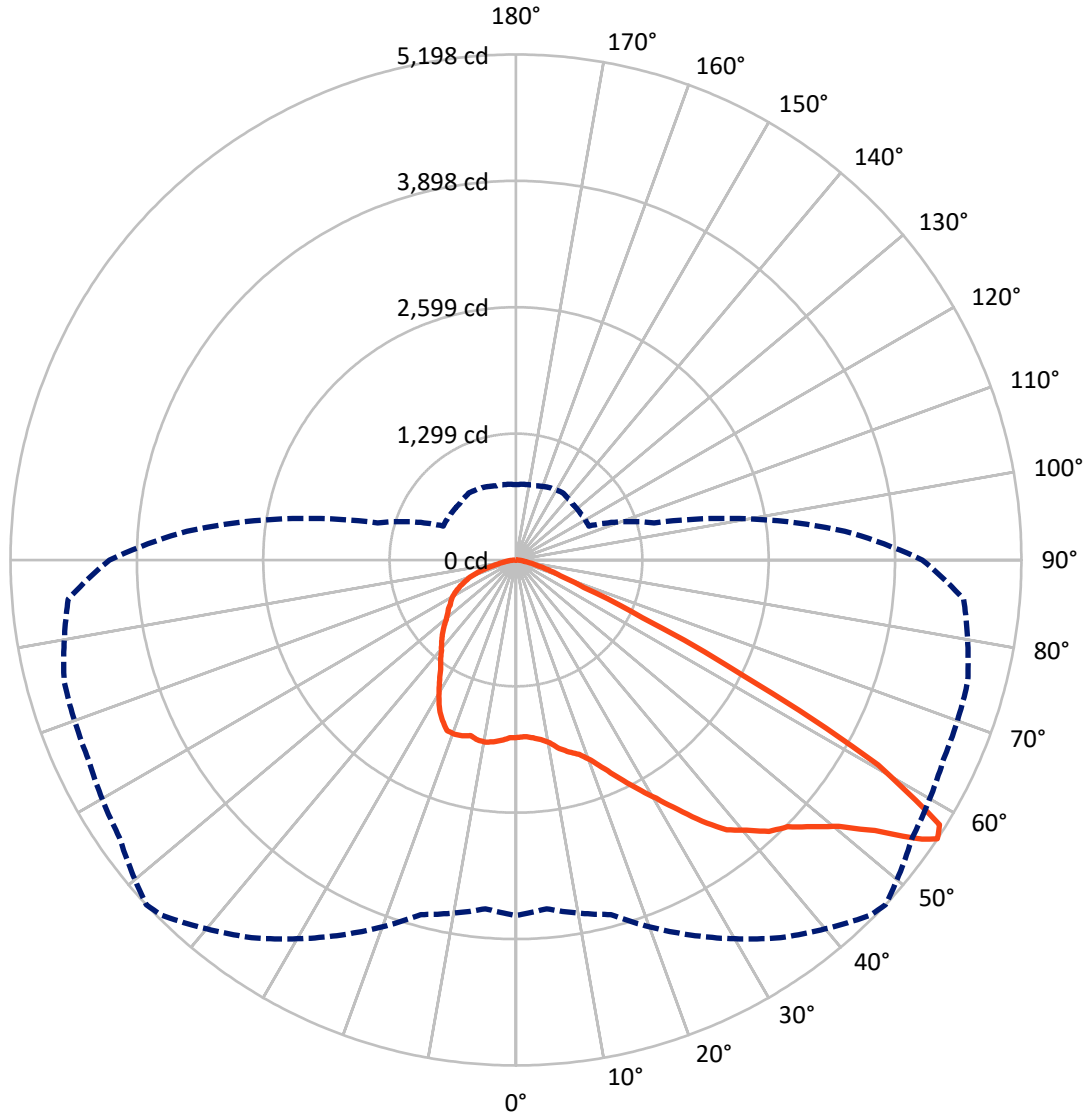
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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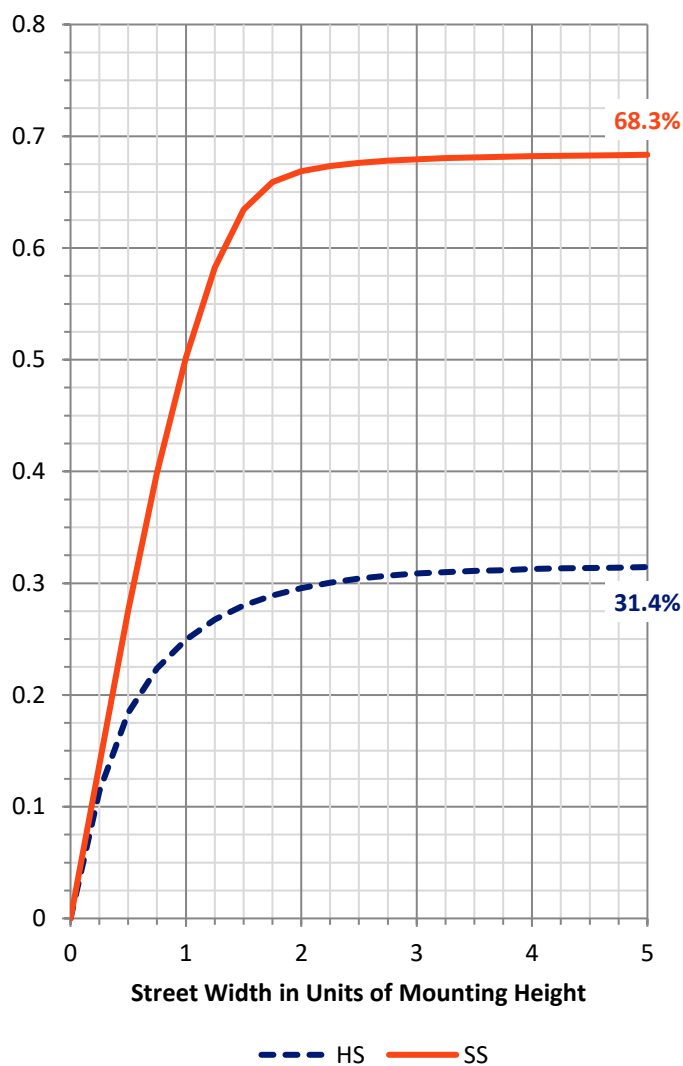
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2880.2	0.0	2880.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6208.8	0.0	6208.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	9089.0	0.0	9089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	2.0
10°-20°	561.2	6.2
20°-30°	992.0	10.9
30°-40°	1489.9	16.4
40°-50°	2044.8	22.5
50°-60°	2436.1	26.8
60°-70°	1042.5	11.5
70°-80°	295.0	3.2
80°-90°	49.6	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°	9089.0	100.0
0°-180°	9089.0	100.0

Coefficient of Utilization

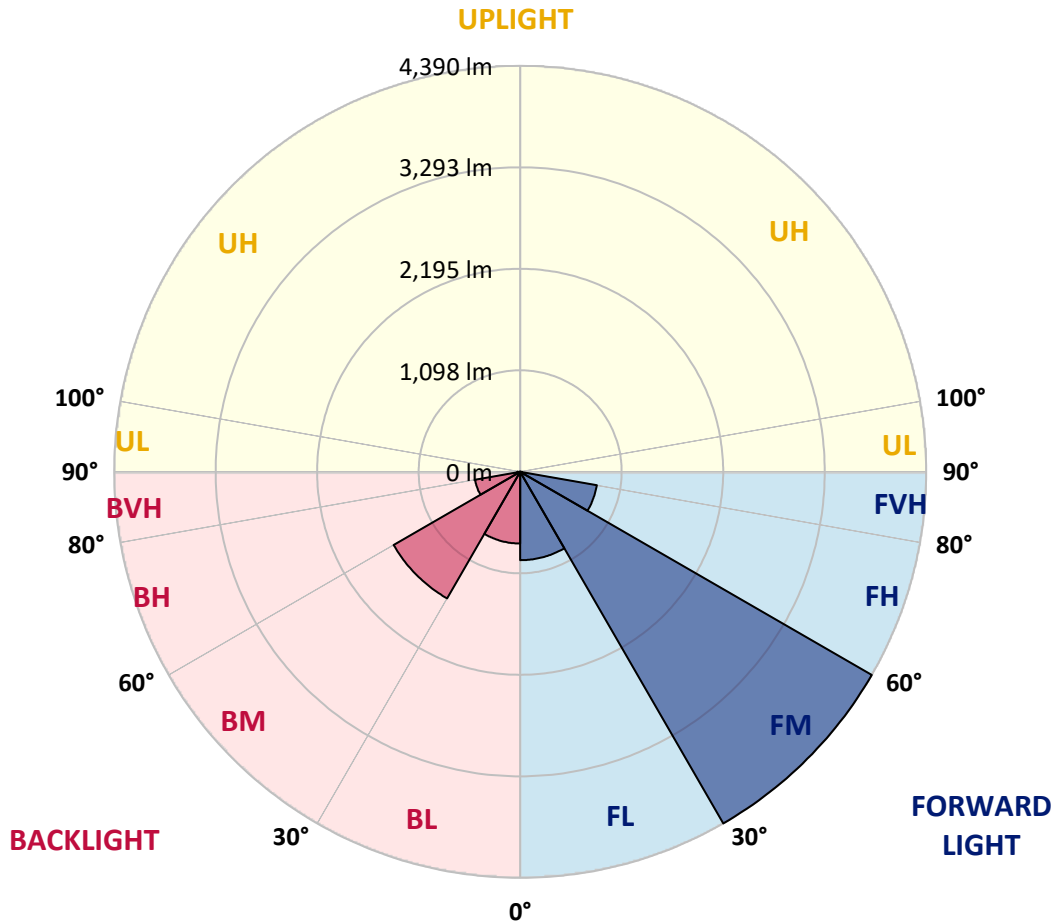


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.6	10.5			
FM (30°-60°)	4390.2	48.3			
FH (60°-80°)	842.0	9.3			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	775.5	8.5	B2/1000		
BM (30°-60°)	1580.6	17.4	B2/2500		
BH (60°-80°)	495.6	5.5	B1/500		G1/500
BVH (80°-90°)	28.6	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7
2.5°	1818.7	1815.3	1813.0	1831.5	1824.5	1825.7	1818.7	1825.7	1830.3	1819.9	1835.0
5°	1815.3	1825.7	1816.4	1822.2	1837.3	1832.7	1837.3	1851.2	1847.7	1844.3	1839.6
7.5°	1847.7	1848.9	1855.8	1858.2	1862.8	1858.2	1865.1	1877.9	1874.4	1854.7	1857.0
10°	1894.1	1896.4	1897.6	1910.3	1918.4	1919.6	1911.5	1899.9	1898.7	1925.4	1906.8
12.5°	1947.4	1941.6	1955.5	1960.2	1969.4	1979.9	1990.3	1966.0	1981.0	1982.2	1960.2
15°	2025.1	2030.9	2014.6	2014.6	2018.1	2019.3	2048.3	2036.7	2034.4	2021.6	2030.9
17.5°	2141.0	2101.6	2100.4	2084.2	2081.9	2091.2	2101.6	2110.9	2142.2	2116.7	2066.8
20°	2225.6	2234.9	2201.3	2181.6	2185.0	2205.9	2195.5	2237.2	2259.2	2217.5	2168.8
22.5°	2375.2	2343.9	2352.0	2307.9	2311.4	2333.4	2332.3	2375.2	2387.9	2321.8	2251.1
25°	2476.0	2467.9	2474.8	2440.1	2444.7	2462.1	2489.9	2560.6	2539.8	2466.7	2303.3
27.5°	2623.2	2607.0	2601.2	2588.4	2583.8	2630.2	2662.6	2738.0	2722.9	2616.3	2396.0
30°	2773.9	2763.5	2769.3	2717.1	2735.7	2834.2	2843.5	2946.6	2939.7	2751.9	2499.2
32.5°	2878.2	2884.0	2894.5	2865.5	2947.8	3026.6	3057.9	3175.0	3180.8	2984.9	2698.6
35°	3046.3	3026.6	3032.4	3066.0	3104.3	3248.0	3299.0	3376.7	3425.4	3229.5	2889.8
37.5°	3151.8	3172.7	3148.3	3201.6	3301.3	3474.1	3520.4	3600.4	3651.4	3470.6	3150.6
40°	3316.4	3282.8	3300.2	3338.4	3440.4	3665.3	3652.6	3734.9	3751.1	3675.8	3394.1
42.5°	3493.8	3477.5	3453.2	3540.1	3625.9	3789.3	3814.9	3776.6	3858.9	3876.3	3741.8
45°	3705.9	3725.6	3729.1	3731.4	3806.7	3949.3	3914.5	3880.9	3976.0	4102.3	3957.4
47.5°	3902.9	3840.4	3885.6	3948.2	4054.8	4056.0	4096.5	4016.5	4117.4	4229.8	4152.2
50°	3969.0	3938.9	3999.2	4117.4	4282.0	4299.4	4304.0	4190.4	4242.6	4331.8	4219.4
52.5°	3943.5	3933.1	4087.3	4270.4	4511.5	4599.6	4622.8	4482.5	4511.5	4470.9	4367.8
55°	3821.8	3853.1	4008.4	4381.7	4751.5	5023.9	5067.9	4890.6	4706.3	4737.6	4624.0
56°	3654.9	3600.4	3774.3	4255.3	4741.0	5161.8	5197.8	4976.3	4851.2	4810.6	4621.6
57.5°	3100.8	3030.1	3258.4	3828.8	4477.9	5109.7	5136.3	5012.3	4826.8	4744.5	4284.3
60°	1815.3	1850.0	2139.8	2640.6	3454.3	4189.3	4278.5	4368.9	4244.9	3876.3	3188.9
62.5°	876.3	854.3	1061.8	1513.9	2105.1	2674.2	2647.6	2901.4	3040.5	2754.2	2013.5
65°	459.0	456.7	579.6	826.5	1156.9	1404.9	1429.3	1566.0	1757.3	1418.8	1022.4
67.5°	337.3	346.6	408.0	580.7	744.2	759.3	755.8	824.2	842.7	712.9	628.3
70°	264.3	268.9	314.1	441.6	554.1	496.1	485.7	493.8	548.3	571.5	543.7
72.5°	191.3	195.9	234.2	297.9	346.6	338.5	345.4	390.6	457.9	482.2	453.2
75°	127.5	131.0	151.9	182.0	205.2	221.4	234.2	286.3	348.9	362.8	348.9
77.5°	88.1	91.6	105.5	128.7	131.0	141.4	146.1	170.4	208.7	226.0	216.8
80°	49.8	49.8	56.8	66.1	81.1	95.1	97.4	117.1	134.5	146.1	148.4
82.5°	23.2	24.3	30.1	40.6	53.3	66.1	68.4	81.1	93.9	105.5	109.0
85°	11.6	12.8	17.4	24.3	32.5	39.4	38.3	39.4	41.7	39.4	40.6
87.5°	3.5	3.5	4.6	5.8	4.6	5.8	5.8	7.0	8.1	9.3	10.4
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°	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7	1825.7
2.5°	1836.1	1839.6	1816.4	1838.5	1830.3	1829.2	1845.4	1843.1	1848.9	1846.6	1832.7
5°	1837.3	1829.2	1853.5	1831.5	1841.9	1864.0	1848.9	1883.7	1866.3	1877.9	1852.4
7.5°	1873.2	1875.5	1870.9	1880.2	1875.5	1886.0	1877.9	1886.0	1872.1	1873.2	1896.4
10°	1904.5	1897.6	1905.7	1894.1	1902.2	1898.7	1880.2	1874.4	1879.0	1873.2	1888.3
12.5°	1962.5	1949.7	1943.9	1930.0	1920.8	1886.0	1857.0	1840.8	1862.8	1866.3	1859.3
15°	2021.6	2022.8	1996.1	1964.8	1906.8	1854.7	1861.6	1867.4	1867.4	1876.7	1859.3
17.5°	2058.7	2058.7	2034.4	1971.8	1912.6	1882.5	1875.5	1857.0	1840.8	1838.5	1837.3
20°	2123.6	2103.9	2048.3	1970.6	1910.3	1896.4	1844.3	1800.2	1766.6	1755.0	1753.8
22.5°	2197.8	2148.0	2070.3	1972.9	1906.8	1887.1	1789.8	1723.7	1663.4	1637.9	1641.4
25°	2266.2	2186.2	2083.0	1962.5	1894.1	1799.0	1690.1	1598.5	1535.9	1515.0	1504.6
27.5°	2313.7	2226.8	2083.0	1971.8	1846.6	1700.5	1589.2	1472.2	1417.7	1403.8	1406.1
30°	2377.5	2277.8	2119.0	1952.1	1751.5	1573.0	1439.7	1363.2	1330.7	1319.1	1327.3
32.5°	2527.0	2411.1	2168.8	1904.5	1639.1	1445.5	1337.7	1294.8	1247.3	1224.1	1216.0
35°	2689.3	2537.4	2217.5	1824.5	1512.7	1329.6	1262.3	1222.9	1166.1	1140.6	1145.3
37.5°	2918.8	2699.7	2221.0	1692.4	1375.9	1264.7	1203.2	1141.8	1095.4	1056.0	1044.4
40°	3228.3	2921.1	2212.9	1553.3	1265.8	1188.2	1142.9	1066.4	1014.3	986.5	992.3
42.5°	3500.7	3180.8	2179.3	1395.6	1166.1	1136.0	1085.0	1009.6	958.6	929.7	927.3
45°	3730.2	3372.0	2115.5	1261.2	1082.7	1078.0	1018.9	961.0	920.4	893.7	905.3
47.5°	3942.4	3526.2	2019.3	1126.7	1006.2	1015.4	958.6	922.7	897.2	872.9	871.7
50°	4018.9	3523.9	1934.7	1015.4	944.7	940.1	937.8	899.5	872.9	852.0	861.3
52.5°	4146.4	3563.3	1843.1	938.9	889.1	890.2	898.4	870.5	840.4	827.7	839.2
55°	4329.5	3569.1	1641.4	849.7	842.7	850.8	850.8	832.3	806.8	796.4	790.6
56°	4180.0	3396.4	1472.2	826.5	819.5	819.5	841.6	820.7	789.4	781.3	774.3
57.5°	3855.4	2975.6	1232.2	798.7	788.2	804.5	816.1	794.0	765.1	753.5	760.4
60°	2659.2	2013.5	926.2	738.4	738.4	765.1	774.3	741.9	729.1	728.0	718.7
62.5°	1552.1	1173.1	724.5	683.9	686.2	708.3	715.2	696.7	680.4	700.1	709.4
65°	823.0	700.1	621.3	626.0	627.1	644.5	674.6	673.5	672.3	678.1	679.3
67.5°	595.8	581.9	564.5	559.9	562.2	575.0	605.1	628.3	627.1	613.2	602.8
70°	530.9	511.2	500.8	501.9	492.7	507.7	532.1	547.1	520.5	504.2	497.3
72.5°	441.6	435.9	428.9	430.1	411.5	408.0	380.2	380.2	373.3	368.6	376.7
75°	337.3	335.0	338.5	332.7	313.0	292.1	275.9	260.8	237.6	228.4	223.7
77.5°	213.3	220.2	228.4	215.6	207.5	192.4	176.2	161.1	142.6	132.1	132.1
80°	144.9	150.7	156.5	154.2	144.9	131.0	118.2	102.0	89.3	81.1	80.0
82.5°	110.1	114.8	122.9	113.6	104.3	92.7	82.3	70.7	59.1	49.8	49.8
85°	39.4	45.2	49.8	54.5	58.0	59.1	51.0	41.7	33.6	26.7	25.5
87.5°	10.4	11.6	12.8	11.6	11.6	11.6	12.8	11.6	10.4	8.1	8.1
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)