

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: P527538

Luminaire Tested: **GALN-SA2C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11859 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

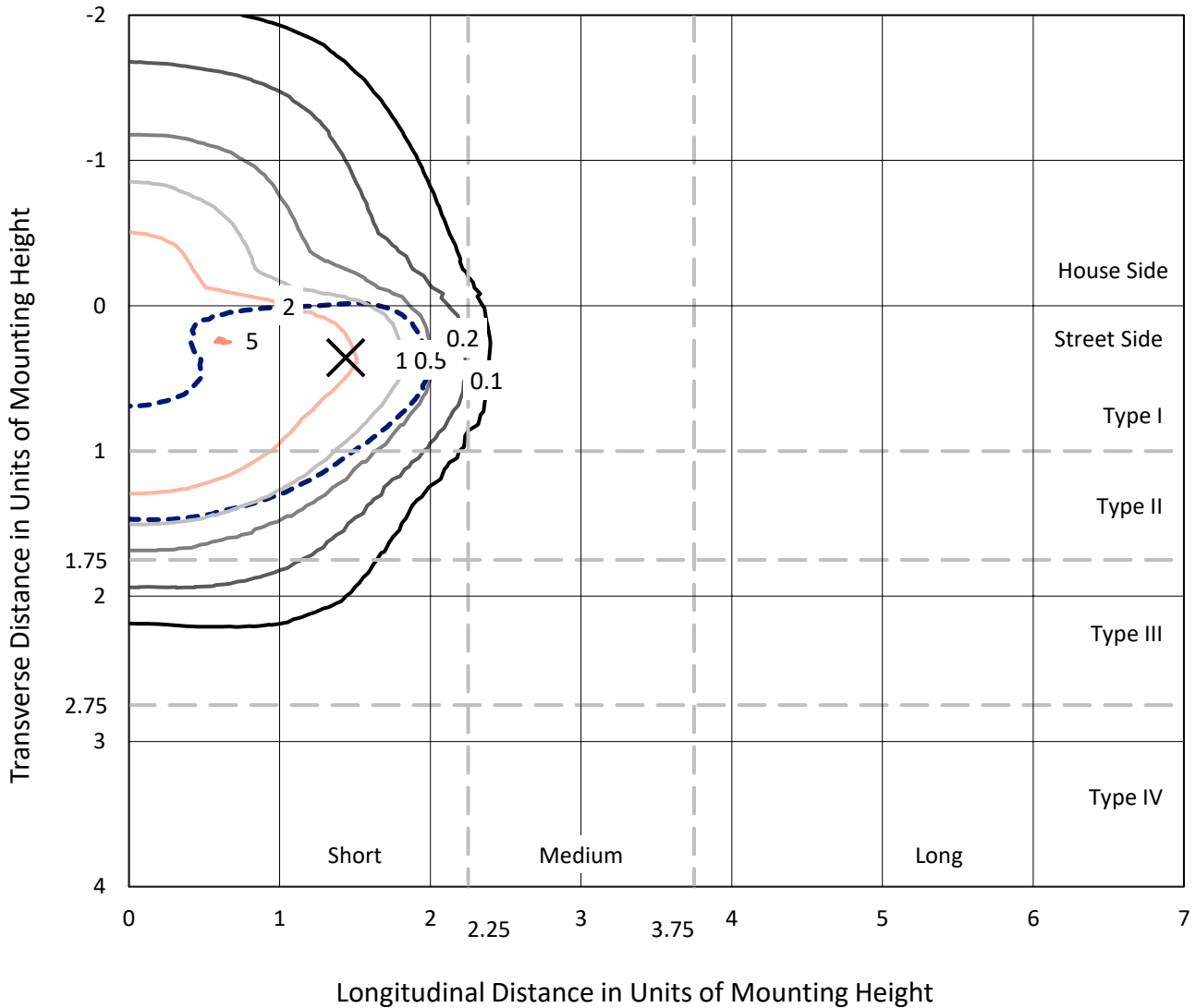
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

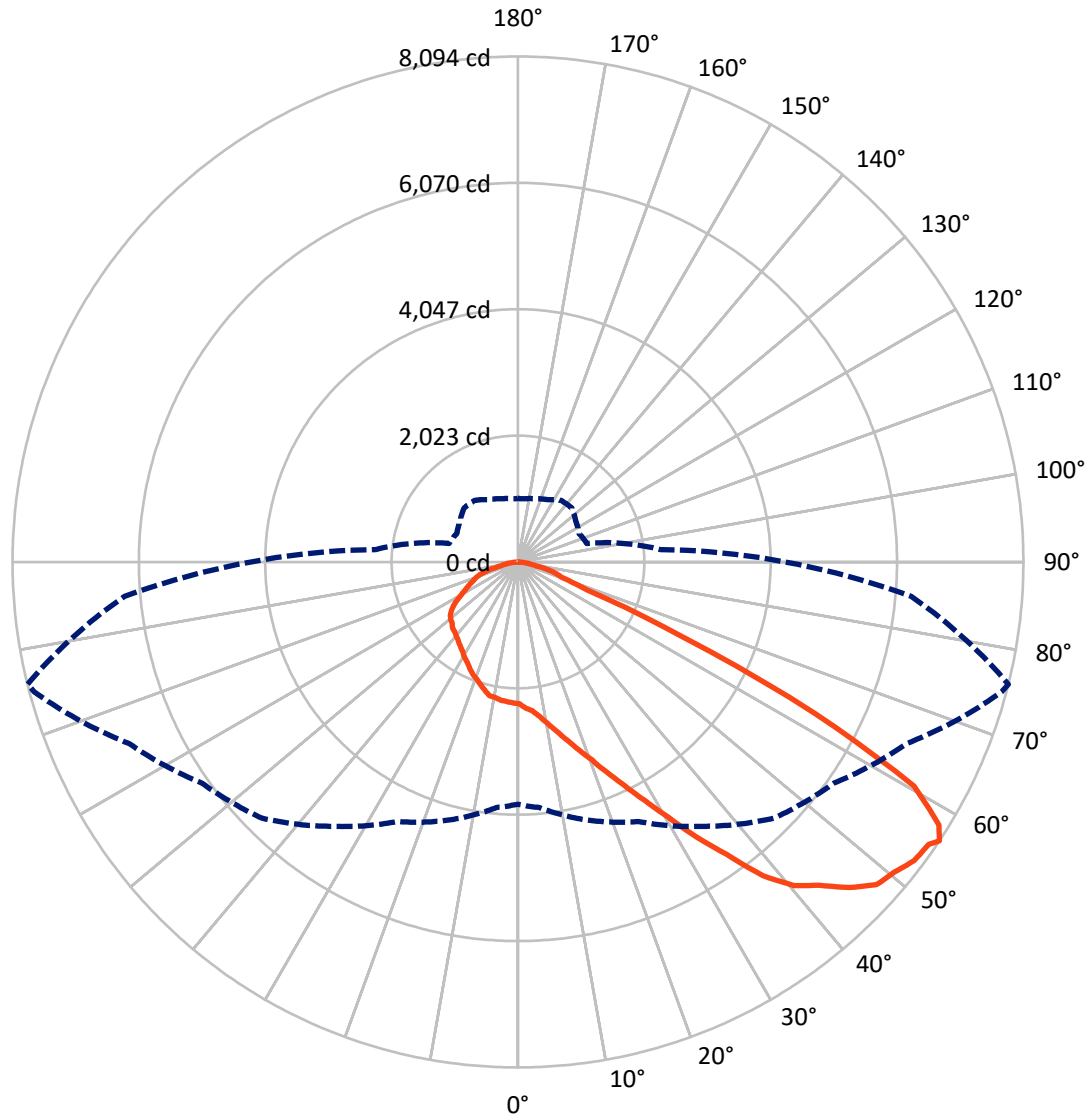
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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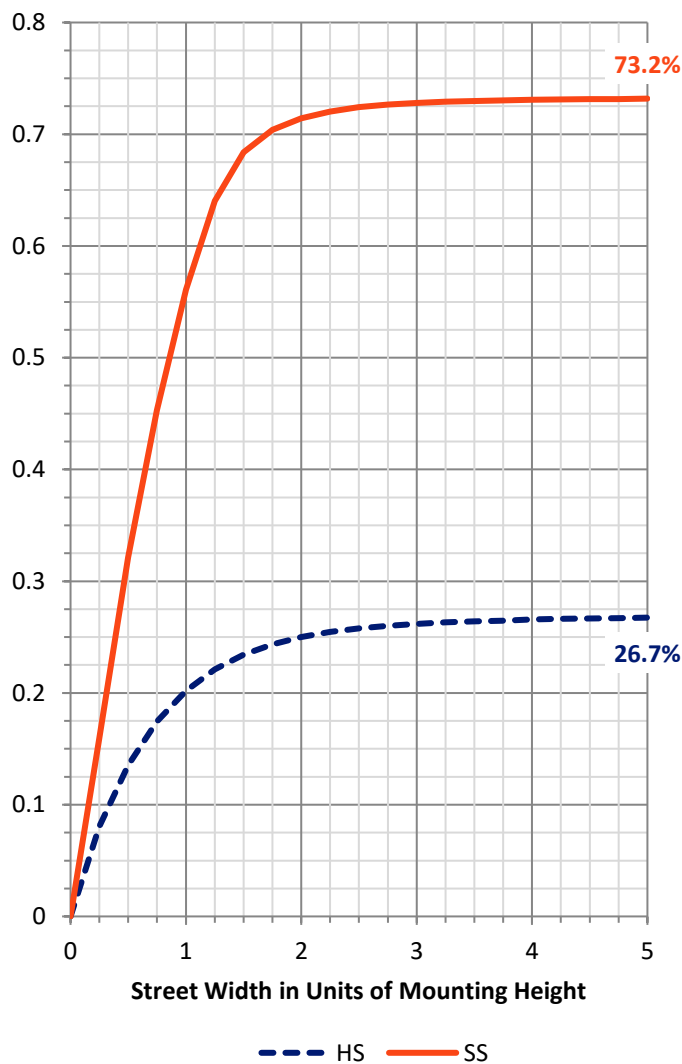
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3188.5	0.0	3188.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8670.5	0.0	8670.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	11859.0	0.0	11859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	1.9
10°-20°	706.9	6.0
20°-30°	1236.2	10.4
30°-40°	1935.6	16.3
40°-50°	2815.7	23.7
50°-60°	3094.6	26.1
60°-70°	1381.3	11.6
70°-80°	399.0	3.4
80°-90°	64.7	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°	11859.0	100.0
0°-180°	11859.0	100.0

Coefficient of Utilization



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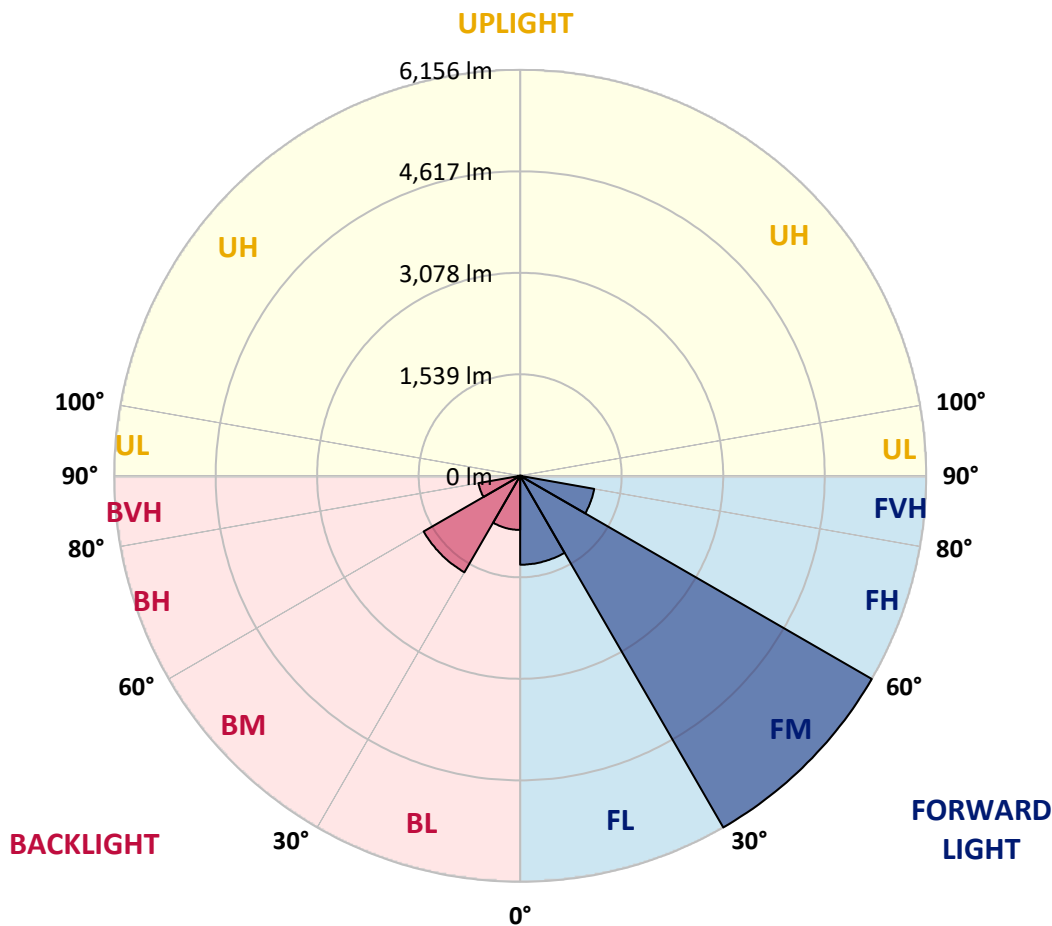
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.6	11.4			
FM (30°-60°)	6156.2	51.9			
FH (60°-80°)	1138.7	9.6			G1/1800
FVH (80°-90°)	27.9	0.2			G1/100
BL (0°-30°)	820.5	6.9	B2/1000		
BM (30°-60°)	1689.7	14.2	B2/2500		
BH (60°-80°)	641.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.9	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°	55°	65°	75°	76°	85°
0°	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1
2.5°	2499.7	2459.7	2456.6	2445.9	2452.0	2424.3	2395.1	2356.7	2316.7	2341.3	2282.9
5°	2674.9	2621.1	2642.6	2605.7	2610.3	2573.5	2513.5	2468.9	2419.7	2390.5	2349.0
7.5°	2736.4	2741.0	2756.4	2750.2	2719.5	2719.5	2679.5	2601.1	2515.0	2498.1	2428.9
10°	2819.4	2821.0	2804.1	2808.7	2851.7	2831.7	2796.4	2762.5	2651.9	2631.9	2508.9
12.5°	2848.6	2821.0	2848.6	2873.2	2924.0	2951.6	2943.9	2919.3	2801.0	2787.1	2607.3
15°	2853.2	2836.3	2859.4	2914.7	2959.3	3076.2	3134.6	3117.7	2960.9	2962.4	2718.0
17.5°	2831.7	2854.8	2864.0	2911.7	3014.7	3123.8	3292.9	3316.0	3186.8	3166.9	2857.9
20°	2860.9	2844.0	2856.3	2899.4	3036.2	3206.8	3428.2	3580.4	3399.0	3385.2	3002.4
22.5°	2973.2	2950.1	2947.0	2974.7	3073.1	3249.9	3571.2	3844.8	3657.3	3664.9	3182.2
25°	3060.8	3073.1	3062.3	3060.8	3122.3	3314.4	3760.3	4160.0	4007.8	3963.2	3394.4
27.5°	3211.4	3240.6	3219.1	3248.3	3234.5	3411.3	3895.5	4508.9	4385.9	4326.0	3586.5
30°	3420.5	3435.9	3415.9	3415.9	3374.4	3546.6	4018.5	4873.3	4822.5	4741.1	3812.5
32.5°	3695.7	3718.7	3678.8	3655.7	3649.6	3748.0	4239.9	5233.0	5319.1	5249.9	4112.3
35°	4060.0	4046.2	3998.5	3977.0	3894.0	4057.0	4568.9	5646.5	5872.5	5749.5	4475.1
37.5°	4381.3	4359.8	4356.7	4236.8	4256.8	4390.6	4848.7	5960.1	6409.0	6373.7	4857.9
40°	4681.1	4701.1	4733.4	4665.7	4635.0	4782.6	5174.6	6200.0	6825.6	6811.8	5153.1
42.5°	5002.4	4984.0	5040.8	4984.0	4937.8	5146.9	5528.2	6366.0	7191.5	7077.8	5462.1
45°	5468.2	5409.8	5429.8	5434.4	5400.6	5477.4	5674.2	6485.9	7448.3	7436.0	5688.0
47.5°	5857.1	5858.7	5824.9	5798.7	5695.7	5772.6	5837.2	6561.2	7743.4	7723.4	5775.7
50°	6001.7	5981.7	6080.1	6136.9	6143.1	5986.3	5964.8	6602.7	7898.7	7811.1	5863.3
52.5°	5482.0	5500.5	5655.8	5994.0	6189.2	6206.1	6113.9	6688.8	7961.7	7943.3	5934.0
55°	4412.1	4501.2	4756.4	5146.9	5609.6	6118.5	6275.3	6778.0	7995.5	7980.2	6247.6
56°	3878.6	3947.8	4279.9	4585.8	5166.9	5800.3	6173.8	6873.3	8021.7	8093.9	6321.4
57.5°	3122.3	3202.2	3440.5	3787.9	4473.6	5194.6	5894.0	6756.5	7920.2	7947.9	6375.2
60°	1952.4	1960.1	2246.0	2475.1	2957.8	3661.9	4498.2	5878.7	7329.9	7289.9	5726.5
62.5°	1280.6	1282.1	1541.9	1729.5	1949.3	2110.7	2647.2	3898.6	5408.3	5337.5	4076.9
65°	899.3	919.3	1120.7	1371.3	1460.4	1375.9	1359.0	2055.4	3020.8	2919.3	2190.7
67.5°	658.0	659.5	837.8	1106.9	1236.0	1046.9	850.1	1003.9	1196.0	1193.0	1014.6
70°	435.1	453.5	590.3	827.1	974.7	840.9	694.9	717.9	761.0	761.0	754.8
72.5°	253.7	270.6	361.3	524.2	547.3	525.8	550.4	614.9	642.6	641.1	633.4
75°	144.5	152.2	172.2	218.3	272.1	321.3	404.3	465.8	493.5	510.4	490.4
77.5°	84.6	89.2	101.5	124.5	141.4	173.7	219.8	262.9	299.8	295.2	298.2
80°	44.6	44.6	56.9	73.8	98.4	123.0	146.0	170.6	190.6	195.2	199.9
82.5°	26.1	27.7	36.9	53.8	70.7	87.6	112.2	129.1	147.6	149.1	152.2
85°	13.8	15.4	23.1	35.4	47.7	53.8	55.3	52.3	56.9	53.8	61.5
87.5°	4.6	4.6	7.7	6.1	6.1	7.7	9.2	9.2	12.3	12.3	12.3
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°	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1	2269.1
2.5°	2281.4	2281.4	2255.2	2206.0	2198.4	2178.4	2159.9	2158.4	2144.5	2132.2	2126.1
5°	2324.4	2276.8	2238.3	2193.7	2141.5	2116.9	2089.2	2058.5	2046.2	2058.5	2056.9
7.5°	2373.6	2333.6	2218.3	2135.3	2075.4	2050.8	2020.0	1987.7	1990.8	1990.8	1969.3
10°	2421.3	2367.5	2183.0	2076.9	1989.3	1970.8	1953.9	1966.2	1981.6	1984.7	1970.8
12.5°	2501.2	2379.8	2166.1	2018.5	1963.1	1923.2	1933.9	1967.8	2000.0	1990.8	2001.6
15°	2561.2	2390.5	2089.2	1958.5	1889.4	1907.8	1946.2	1969.3	2023.1	2016.9	2027.7
17.5°	2619.6	2396.7	2013.9	1878.6	1849.4	1900.1	1929.3	1995.4	2012.3	2049.2	2063.1
20°	2739.5	2409.0	1937.0	1829.4	1820.2	1878.6	1929.3	1960.1	1997.0	2029.2	2029.2
22.5°	2801.0	2402.8	1886.3	1764.8	1794.0	1830.9	1877.1	1929.3	1929.3	1960.1	1961.6
25°	2877.8	2378.2	1806.3	1734.1	1755.6	1791.0	1843.2	1824.8	1844.8	1844.8	1869.4
27.5°	2965.5	2325.9	1737.2	1678.7	1721.8	1760.2	1767.9	1755.6	1732.5	1729.5	1720.2
30°	3036.2	2261.4	1686.4	1660.3	1695.7	1717.2	1692.6	1666.4	1626.5	1623.4	1601.9
32.5°	3133.0	2181.4	1623.4	1614.2	1654.1	1655.7	1648.0	1608.0	1549.6	1525.0	1500.4
35°	3296.0	2135.3	1575.7	1589.6	1601.9	1597.3	1583.4	1540.4	1482.0	1471.2	1462.0
37.5°	3415.9	2101.5	1526.5	1543.5	1554.2	1560.4	1518.9	1471.2	1472.7	1451.2	1445.1
40°	3551.2	2080.0	1486.6	1494.3	1495.8	1515.8	1465.1	1442.0	1452.8	1438.9	1448.1
42.5°	3724.9	2086.1	1445.1	1438.9	1468.1	1460.4	1435.8	1405.1	1411.2	1369.7	1375.9
45°	3817.1	2127.6	1420.5	1392.8	1425.1	1423.5	1391.3	1362.1	1325.2	1245.2	1248.3
47.5°	3878.6	2138.4	1362.1	1343.6	1377.4	1397.4	1360.5	1292.9	1240.6	1183.7	1169.9
50°	3941.7	2158.4	1334.4	1296.0	1309.8	1357.4	1311.3	1246.8	1196.0	1145.3	1153.0
52.5°	3997.0	2196.8	1280.6	1223.7	1248.3	1300.6	1276.0	1197.6	1142.2	1100.7	1088.4
55°	4243.0	2282.9	1189.9	1116.1	1174.5	1240.6	1226.8	1131.5	1071.5	1050.0	1046.9
56°	4281.4	2286.0	1142.2	1079.2	1133.0	1220.6	1203.7	1102.3	1048.4	1014.6	1016.2
57.5°	4287.6	2249.1	1074.6	1045.4	1091.5	1191.4	1169.9	1079.2	1005.4	974.7	965.4
60°	3772.6	1755.6	990.0	971.6	1025.4	1102.3	1094.6	1016.2	933.1	897.8	914.7
62.5°	2571.9	1286.7	923.9	920.8	948.5	1023.8	1003.9	933.1	864.0	840.9	830.1
65°	1497.3	976.2	859.4	847.1	870.1	910.1	923.9	850.1	777.9	762.5	757.9
67.5°	884.0	807.1	776.3	756.4	748.7	773.3	784.0	741.0	668.7	647.2	665.7
70°	739.4	717.9	719.5	685.6	667.2	650.3	641.1	602.6	542.7	515.0	507.3
72.5°	638.0	628.8	622.6	591.9	575.0	536.5	496.6	458.1	413.5	390.5	392.0
75°	487.3	484.3	487.3	472.0	442.7	412.0	375.1	325.9	292.1	262.9	269.0
77.5°	290.6	299.8	304.4	298.2	285.9	258.3	235.2	202.9	170.6	147.6	144.5
80°	199.9	207.5	215.2	207.5	195.2	175.3	150.7	126.1	103.0	90.7	87.6
82.5°	152.2	159.9	164.5	156.8	141.4	119.9	103.0	86.1	67.6	55.3	52.3
85°	55.3	63.0	61.5	73.8	79.9	76.9	66.1	50.7	38.4	27.7	26.1
87.5°	15.4	13.8	15.4	15.4	15.4	13.8	12.3	12.3	12.3	7.7	6.1
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)