

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: P522704

Luminaire Tested: **GALN-SA3C-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17565 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

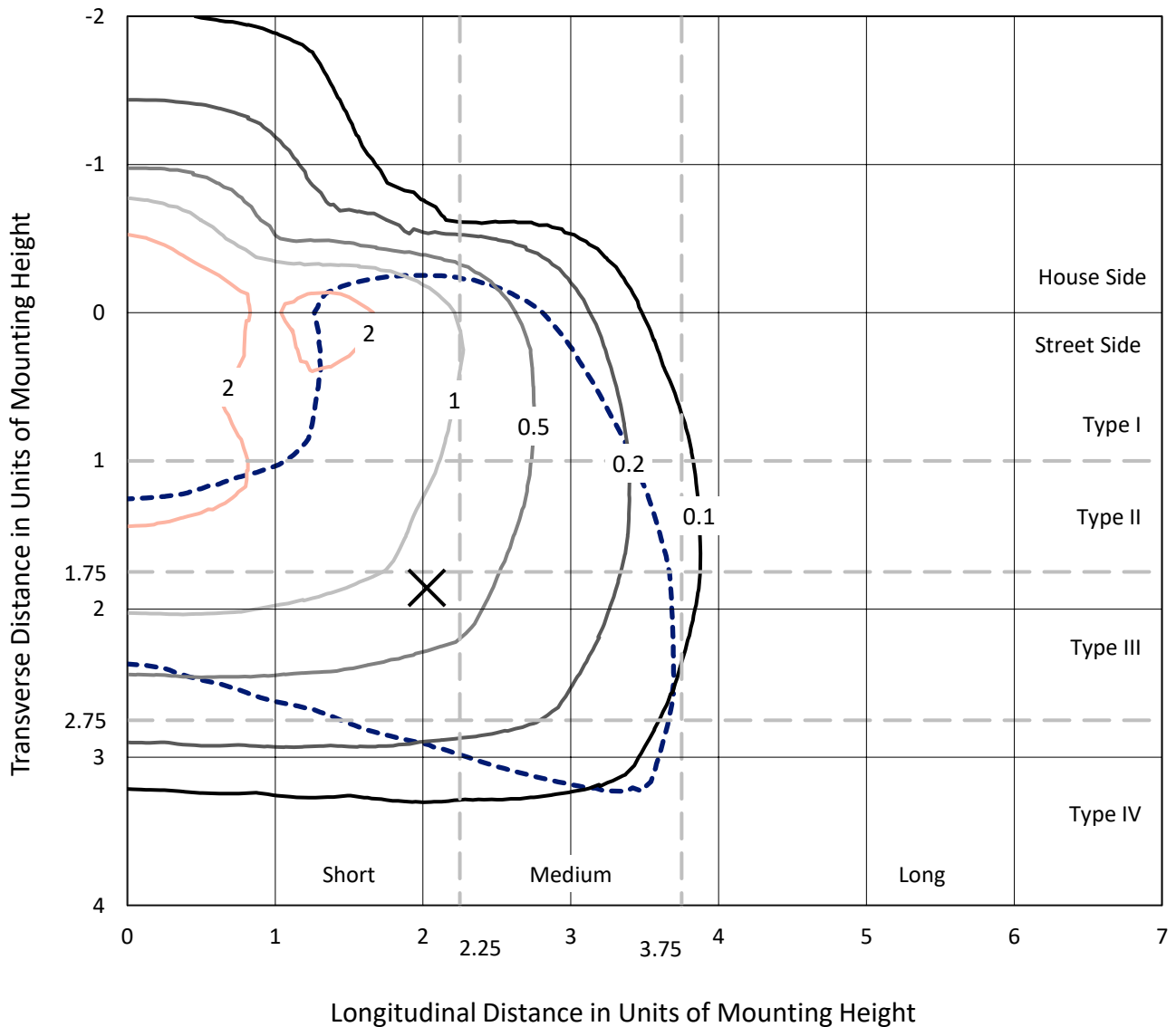
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

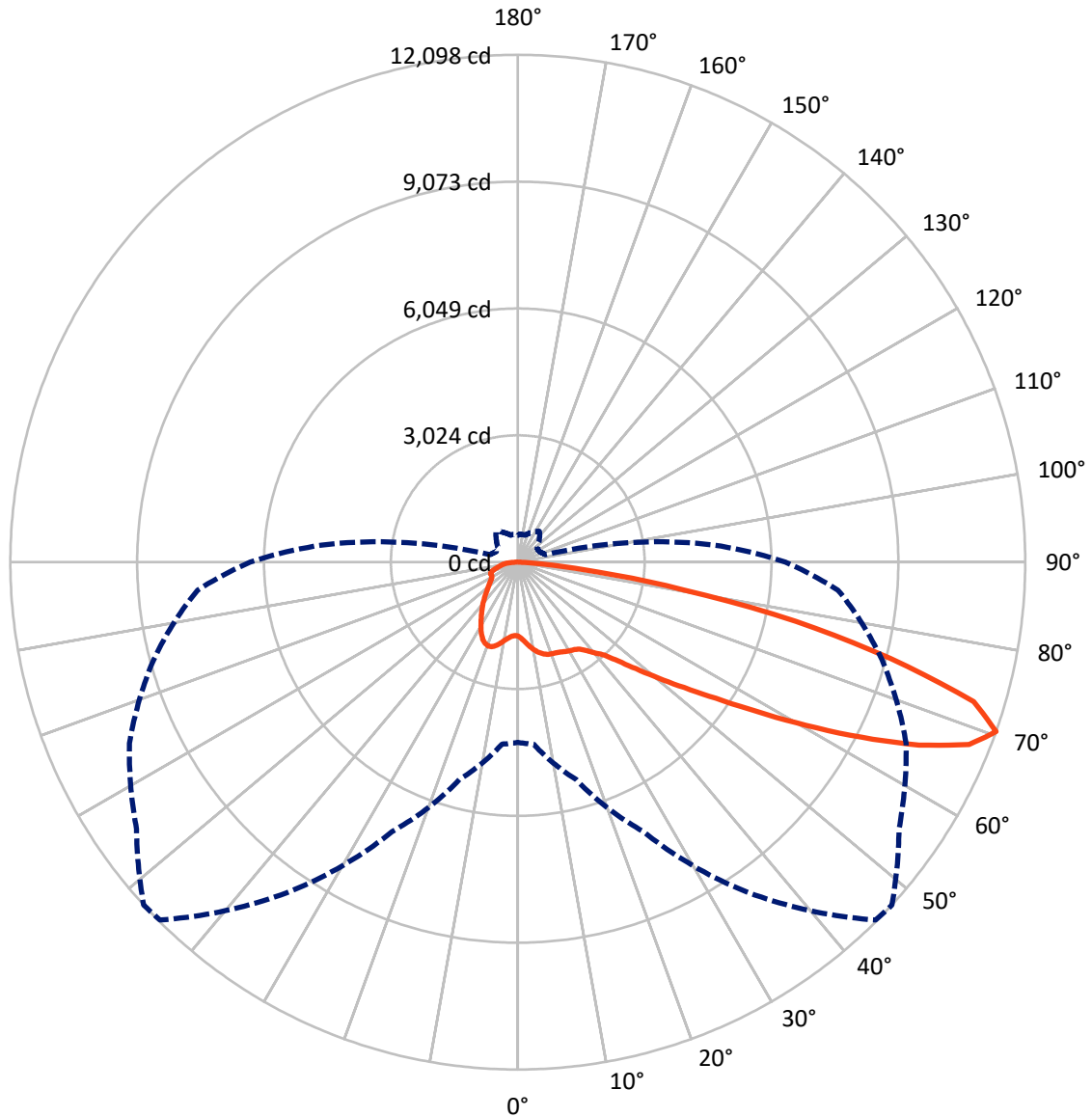
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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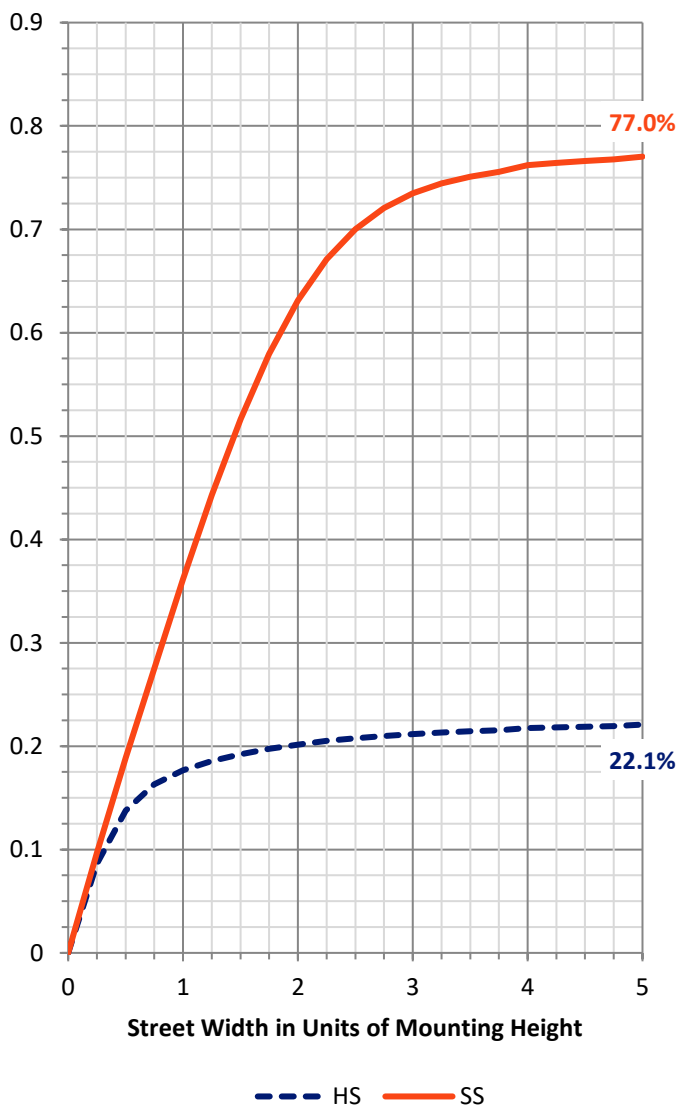
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3977.1	0.0	3977.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13587.9	0.0	13587.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	17565.0	0.0	17565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.0
10°-20°	607.6	3.5
20°-30°	1010.5	5.8
30°-40°	1432.2	8.2
40°-50°	2114.3	12.0
50°-60°	3662.0	20.8
60°-70°	5172.7	29.4
70°-80°	2973.6	16.9
80°-90°	410.3	2.3
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°	17565.0	100.0
0°-180°	17565.0	100.0

Coefficient of Utilization



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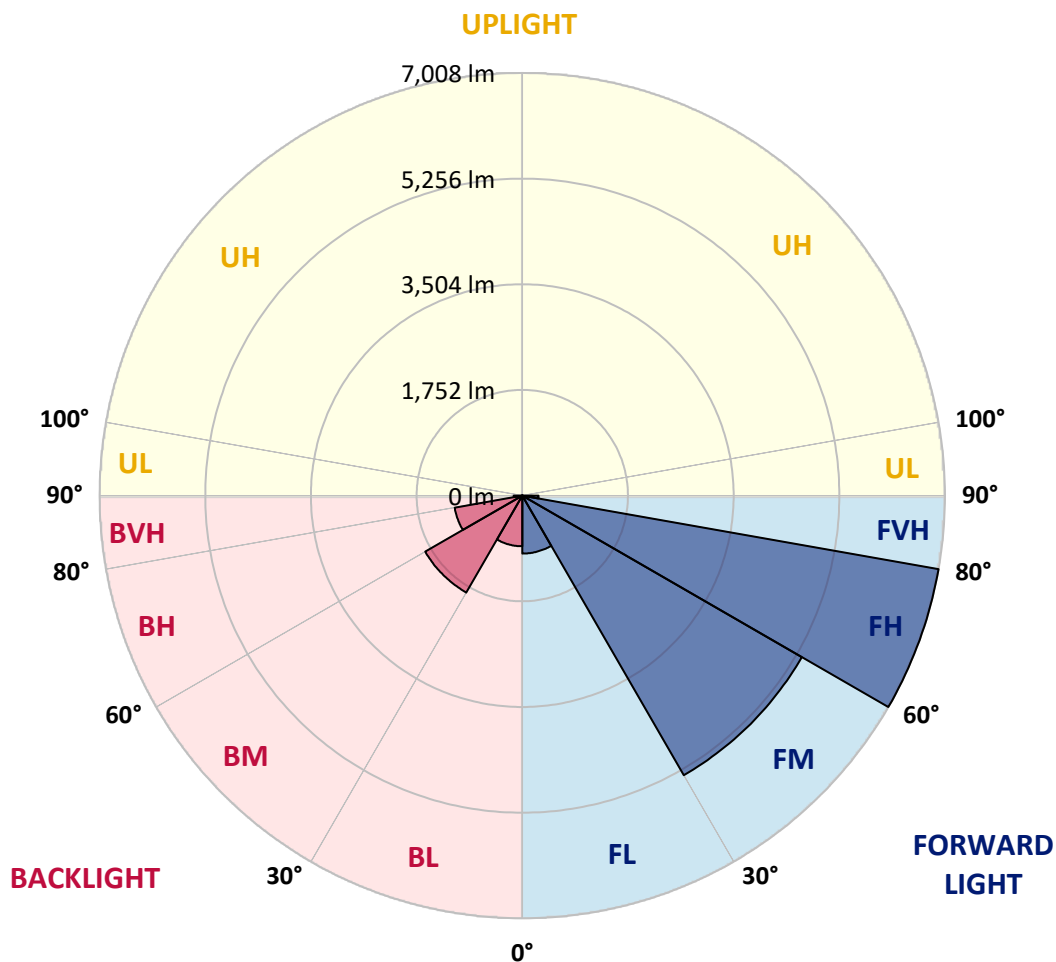
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	960.5	5.5			
FM	(30°-60°)	5351.7	30.5			
FH	(60°-80°)	7007.7	39.9			G3/7500
FVH	(80°-90°)	268.0	1.5			G3/500
BL	(0°-30°)	839.4	4.8	B2/1000		
BM	(30°-60°)	1856.8	10.6	B2/2500		
BH	(60°-80°)	1138.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	142.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3
2.5°	1877.0	1870.5	1869.5	1855.4	1847.9	1833.8	1828.2	1815.0	1799.0	1783.1	1768.0
5°	2024.6	2024.6	2018.0	1998.3	1967.3	1935.3	1921.2	1895.8	1850.7	1814.1	1783.1
7.5°	2175.9	2177.8	2164.7	2135.5	2091.4	2039.7	2026.5	1988.9	1925.0	1871.4	1825.4
10°	2306.6	2306.6	2288.7	2249.3	2193.8	2137.4	2124.2	2082.0	2010.5	1943.8	1883.6
12.5°	2406.2	2406.2	2382.7	2331.0	2270.9	2220.1	2205.1	2164.7	2097.9	2023.7	1947.5
15°	2471.1	2466.4	2440.1	2381.8	2323.5	2279.3	2269.0	2235.2	2174.1	2098.9	2013.3
17.5°	2473.9	2472.0	2446.6	2397.8	2347.0	2316.9	2310.4	2287.8	2239.9	2168.4	2078.2
20°	2419.4	2423.1	2406.2	2371.5	2347.0	2333.9	2331.0	2323.5	2289.7	2222.9	2132.7
22.5°	2361.1	2367.7	2351.7	2332.9	2331.0	2344.2	2346.1	2348.0	2326.3	2261.5	2178.8
25°	2347.0	2351.7	2335.7	2318.8	2329.2	2363.9	2371.5	2379.0	2362.1	2307.5	2233.3
27.5°	2418.4	2414.7	2383.7	2347.0	2353.6	2400.6	2410.9	2419.4	2410.9	2363.9	2301.0
30°	2620.5	2608.3	2546.3	2439.1	2405.3	2438.2	2448.5	2472.0	2472.0	2437.2	2374.3
32.5°	2958.9	2935.4	2821.7	2611.1	2493.6	2473.9	2484.2	2522.8	2542.5	2515.3	2446.6
35°	3369.7	3345.2	3182.6	2899.7	2655.3	2545.3	2542.5	2585.8	2638.4	2577.3	2488.0
37.5°	3782.3	3756.9	3561.4	3243.7	2891.2	2695.7	2678.8	2693.8	2716.4	2604.6	2545.3
40°	4194.9	4164.8	3993.8	3628.1	3179.8	2895.0	2850.8	2783.1	2773.7	2693.8	2656.3
42.5°	4603.8	4576.5	4490.1	4059.6	3525.7	3089.6	3021.9	2905.3	2941.1	2893.1	2860.2
45°	5016.4	5018.3	4926.2	4543.6	3943.0	3448.6	3357.4	3175.1	3259.7	3241.8	3260.6
47.5°	5382.1	5377.4	5344.5	5013.6	4460.9	3911.1	3793.6	3582.1	3726.8	3792.6	3936.4
50°	5736.4	5733.6	5735.5	5546.5	5062.5	4460.9	4331.2	4109.4	4435.5	4663.9	4921.5
52.5°	6244.0	6260.0	6146.2	6096.4	5793.7	5110.4	4967.5	4738.2	5273.0	5633.0	6135.9
55°	6753.4	6740.3	6651.0	6702.7	6558.9	5879.3	5729.8	5547.5	6205.4	6599.3	7355.0
57.5°	7053.3	7058.0	7149.1	7402.0	7503.5	6838.0	6702.7	6561.7	7253.5	7532.6	8439.7
60°	7323.0	7344.6	7606.9	8084.4	8359.8	8015.8	7895.4	7758.2	8215.0	8325.9	9381.5
62.5°	7407.6	7474.3	7932.1	8646.4	9194.4	9344.8	9195.4	8892.7	9130.5	9087.3	10019.7
65°	6985.6	7076.8	7897.3	8857.0	9939.8	10606.2	10511.3	9949.2	9910.7	9650.3	10124.0
67.5°	5874.6	5965.8	7019.4	8415.2	10248.1	11698.4	11603.5	10719.9	10384.4	9702.9	9334.5
70°	4298.3	4355.7	5363.3	7085.2	9628.7	12065.0	12097.9	11095.9	10215.2	8987.6	7664.2
72.5°	2476.7	2603.6	3309.5	4984.5	7866.3	11138.2	11366.6	10313.9	9145.5	7497.8	5358.6
75°	1064.9	1067.8	1530.2	2749.3	5327.5	8952.9	9173.7	8549.6	7182.0	5184.7	2861.2
77.5°	506.6	516.0	673.0	1227.6	2932.6	6185.7	6781.6	6040.0	4593.5	2490.8	1080.9
80°	329.0	335.6	411.7	609.1	1438.1	3586.8	4002.2	3484.3	2026.5	890.1	466.2
82.5°	199.3	201.1	275.4	372.2	791.4	1624.2	1914.6	1512.4	864.7	532.9	274.5
85°	121.3	122.2	167.3	230.3	480.3	561.1	576.2	571.5	507.6	348.7	146.6
87.5°	58.3	60.2	86.5	109.0	188.9	173.9	164.5	190.8	239.7	188.0	63.0
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°	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3	1763.3
2.5°	1761.4	1758.6	1752.0	1749.2	1747.3	1748.3	1747.3	1747.3	1748.3	1748.3	1748.3
5°	1769.9	1765.2	1754.9	1754.9	1760.5	1773.7	1785.9	1795.3	1805.6	1804.7	1804.7
7.5°	1806.6	1798.1	1785.9	1789.6	1803.7	1824.4	1846.0	1866.7	1887.4	1889.3	1888.3
10°	1860.1	1851.7	1838.5	1843.2	1865.8	1896.8	1924.0	1954.1	1976.7	1983.3	1981.4
12.5°	1921.2	1904.3	1893.0	1906.2	1941.9	1983.3	2009.6	2032.1	2048.1	2057.5	2053.8
15°	1983.3	1967.3	1954.1	1981.4	2024.6	2063.2	2076.3	2080.1	2082.9	2092.3	2090.4
17.5°	2043.4	2021.8	2017.1	2052.8	2094.2	2111.1	2103.6	2087.6	2075.4	2082.9	2082.0
20°	2097.0	2080.1	2078.2	2113.9	2129.9	2113.9	2082.0	2053.8	2032.1	2034.0	2033.1
22.5°	2147.7	2134.6	2136.5	2151.5	2126.1	2071.6	2019.0	1980.4	1956.9	1961.6	1964.5
25°	2204.1	2191.0	2195.7	2171.2	2087.6	1992.7	1916.5	1883.6	1874.2	1883.6	1890.2
27.5°	2277.5	2269.0	2266.2	2172.2	2019.0	1876.1	1789.6	1777.4	1785.9	1806.6	1816.9
30°	2356.4	2356.4	2341.4	2156.2	1925.0	1736.1	1660.9	1662.7	1691.9	1721.0	1731.4
32.5°	2432.5	2448.5	2401.5	2113.0	1803.7	1599.8	1542.4	1544.3	1569.7	1605.4	1614.8
35°	2495.5	2541.6	2453.2	2034.0	1660.9	1485.1	1441.9	1416.5	1417.4	1444.7	1452.2
37.5°	2582.0	2667.5	2483.3	1916.5	1508.6	1387.3	1338.5	1294.3	1265.2	1253.9	1253.9
40°	2732.4	2858.3	2490.8	1742.6	1364.8	1294.3	1224.7	1172.1	1115.7	1064.9	1055.5
42.5°	2987.1	3146.0	2475.8	1542.4	1235.1	1191.8	1124.2	1059.3	981.3	909.9	904.2
45°	3438.3	3520.0	2435.4	1334.7	1119.5	1093.1	1027.3	956.9	874.1	810.2	805.5
47.5°	4161.1	4045.5	2381.8	1150.5	1014.2	1006.7	955.9	874.1	791.4	747.2	742.5
50°	5216.6	4872.6	2374.3	1017.0	929.6	933.4	892.0	816.8	744.4	707.8	702.1
52.5°	6487.4	5871.8	2424.1	923.0	855.3	869.4	848.8	779.2	715.3	684.3	678.6
55°	7720.6	6770.3	2454.2	849.7	785.8	812.1	814.9	756.6	698.4	667.4	663.6
57.5°	8721.6	7447.1	2320.7	783.0	725.6	766.0	786.7	743.5	689.9	666.4	662.7
60°	9418.1	7766.7	1941.0	723.7	681.5	729.4	776.4	744.4	710.6	713.4	715.3
62.5°	9640.0	7624.7	1456.0	679.6	651.4	717.2	793.3	783.0	748.2	769.8	773.6
65°	9272.4	7038.2	1055.5	644.8	625.1	725.6	844.1	811.2	735.0	751.0	751.0
67.5°	8042.1	6063.5	821.5	612.8	595.0	741.6	894.8	808.3	704.0	722.8	705.9
70°	6379.3	4690.3	684.3	577.1	563.0	718.1	899.5	779.2	667.4	671.1	639.2
72.5°	4233.5	3083.9	588.4	543.3	514.1	645.7	861.0	741.6	631.6	610.0	578.1
75°	2074.4	1537.7	513.2	501.0	450.2	562.1	808.3	705.9	593.1	559.3	541.4
77.5°	803.6	654.2	438.0	447.4	392.0	495.3	738.8	655.1	542.3	496.3	482.2
80°	390.1	371.3	359.1	373.2	322.4	422.0	674.9	611.0	495.3	444.6	423.9
82.5°	242.5	229.3	275.4	290.4	248.1	385.4	640.1	573.4	436.1	368.5	351.5
85°	123.1	131.6	184.2	198.3	177.6	306.4	527.3	430.5	314.9	261.3	263.2
87.5°	47.0	63.0	96.8	104.3	94.9	161.7	290.4	251.0	202.1	137.2	126.9
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)