

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: P451658

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14219 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

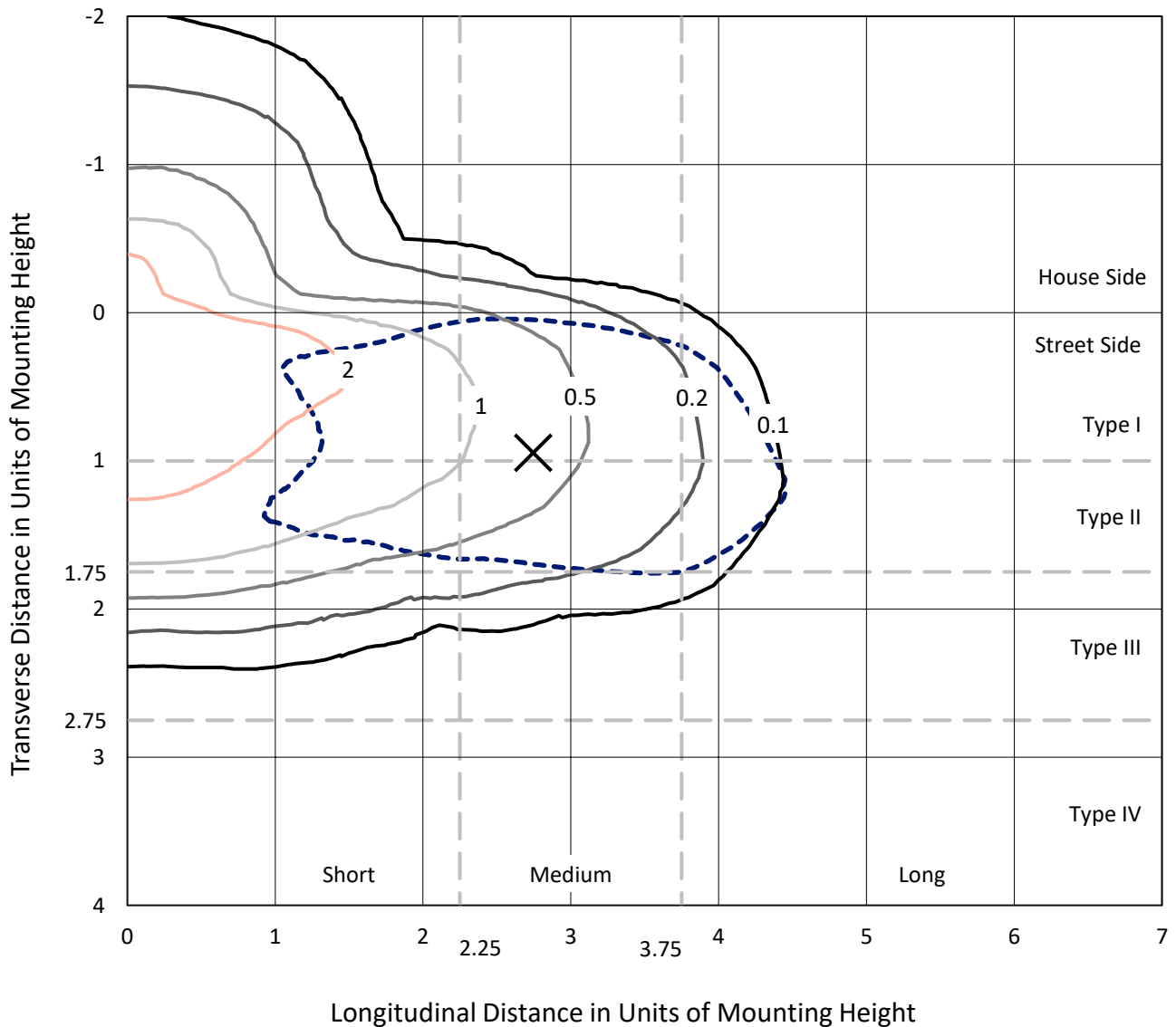
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

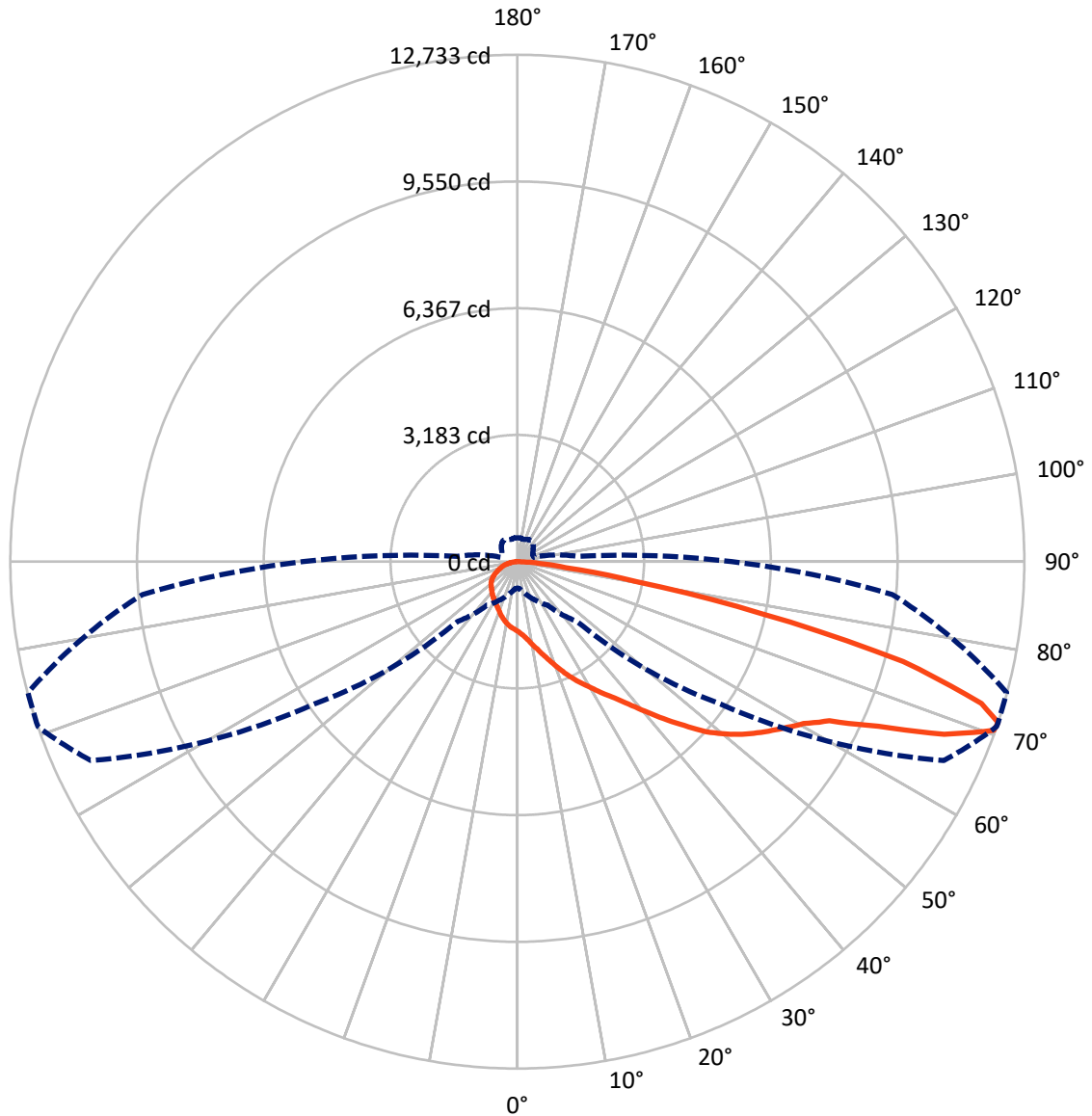
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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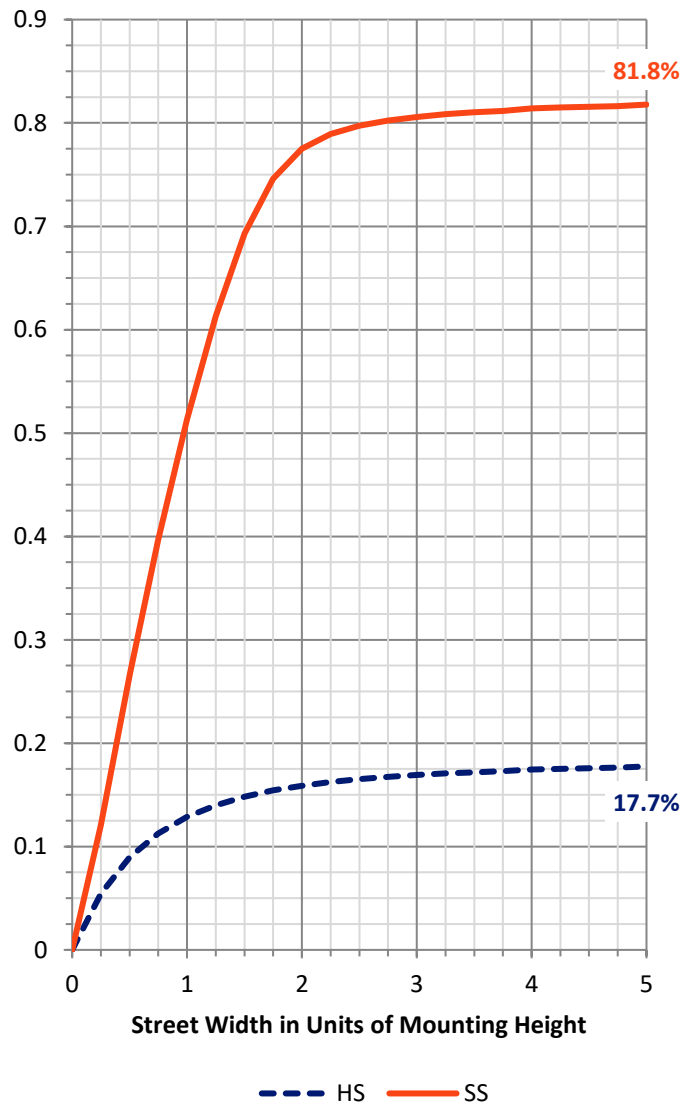
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.2	0.0	2557.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11661.8	0.0	11661.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	14219.0	0.0	14219.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	1.2
10°-20°	569.3	4.0
20°-30°	994.9	7.0
30°-40°	1479.7	10.4
40°-50°	2180.2	15.3
50°-60°	3052.3	21.5
60°-70°	3413.9	24.0
70°-80°	2085.3	14.7
80°-90°	268.3	1.9
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°	14219.0	100.0
0°-180°	14219.0	100.0



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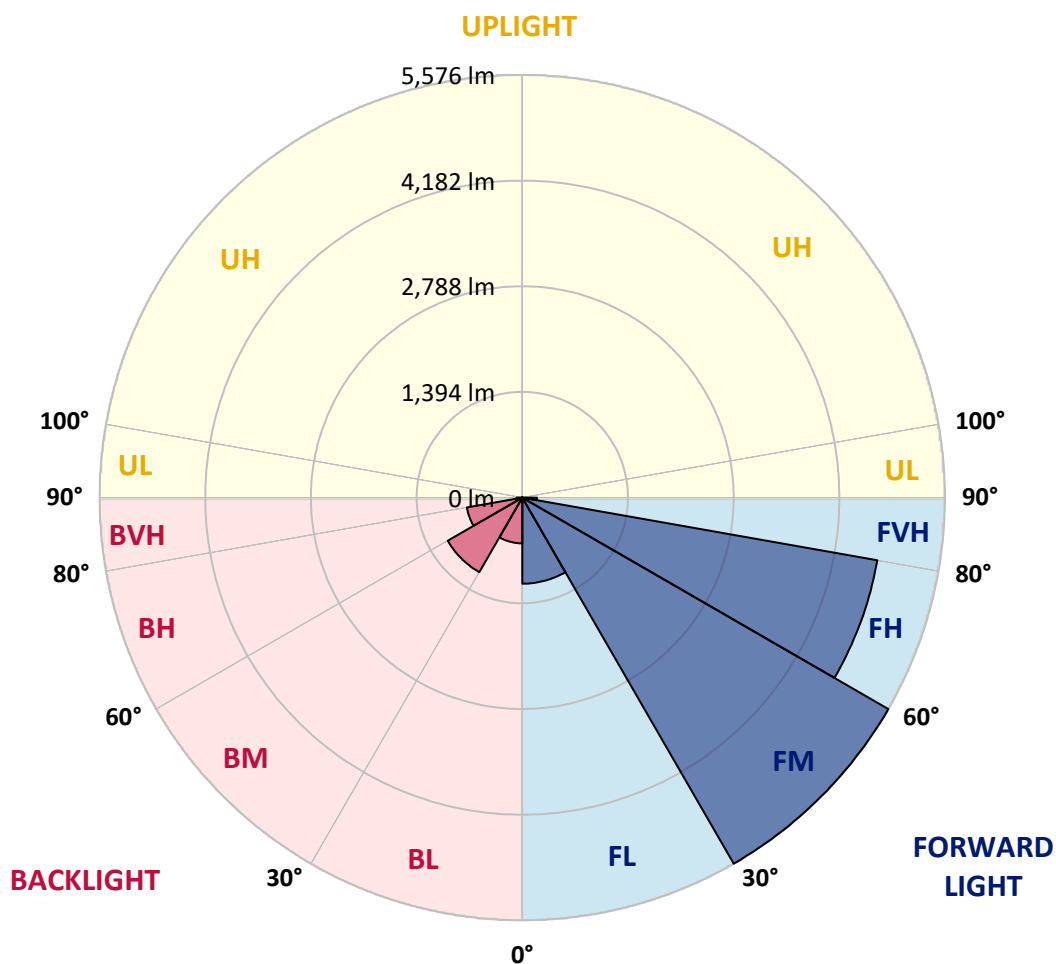
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.1	8.0			
FM	(30°-60°)	5576.4	39.2			
FH	(60°-80°)	4756.2	33.4			G2/5000
FVH	(80°-90°)	193.0	1.4			G2/225
BL	(0°-30°)	603.2	4.2	B2/1000		
BM	(30°-60°)	1135.8	8.0	B2/2500		
BH	(60°-80°)	743.0	5.2	B2/1000		G2/1000
BVH	(80°-90°)	75.2	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1
2.5°	1937.4	1928.0	1928.8	1915.5	1898.3	1879.5	1852.9	1829.5	1810.7	1799.8	1767.8
5°	2146.8	2137.4	2125.7	2096.8	2084.3	2038.2	1979.6	1926.4	1885.8	1863.1	1799.0
7.5°	2316.4	2314.0	2310.9	2294.5	2262.5	2198.4	2148.4	2056.1	1996.0	1953.0	1843.6
10°	2421.1	2425.0	2427.4	2430.5	2417.2	2383.6	2314.8	2198.4	2121.8	2067.1	1901.4
12.5°	2474.2	2478.2	2491.4	2520.4	2538.3	2534.4	2478.2	2364.1	2258.6	2186.7	1963.1
15°	2507.1	2513.3	2536.8	2575.1	2635.2	2673.5	2646.2	2540.7	2425.0	2339.8	2036.6
17.5°	2543.0	2550.1	2575.8	2630.5	2709.5	2792.3	2822.0	2731.4	2605.5	2503.9	2118.7
20°	2563.3	2572.7	2609.4	2681.3	2773.6	2893.9	2992.4	2944.7	2807.2	2694.6	2213.2
22.5°	2596.2	2604.0	2635.2	2711.8	2822.0	2972.8	3162.8	3152.6	3031.5	2886.1	2317.2
25°	2685.3	2697.8	2713.4	2759.5	2865.8	3053.3	3304.2	3374.5	3248.7	3086.2	2412.5
27.5°	2853.3	2863.4	2862.7	2868.9	2929.1	3122.9	3426.9	3594.1	3464.4	3288.6	2504.7
30°	3044.7	3048.7	3051.8	3037.7	3051.0	3194.0	3539.4	3811.4	3681.7	3496.5	2585.2
32.5°	3277.6	3285.4	3258.9	3222.9	3212.0	3299.5	3632.4	4028.7	3938.8	3707.5	2664.9
35°	3552.7	3573.0	3519.1	3455.8	3411.3	3451.1	3757.5	4250.6	4202.2	3977.1	2770.4
37.5°	3866.9	3891.9	3841.9	3717.6	3654.3	3665.3	3920.8	4524.9	4535.1	4284.2	2927.5
40°	4124.0	4156.8	4158.4	3982.6	3886.4	3898.9	4127.9	4820.3	4936.8	4664.0	3112.7
42.5°	4293.6	4325.6	4359.2	4256.1	4155.3	4226.4	4369.4	5140.7	5388.5	5125.1	3371.4
45°	4479.6	4508.5	4527.3	4480.4	4424.1	4608.5	4660.9	5481.5	5869.9	5640.1	3654.3
47.5°	4695.3	4727.3	4745.3	4700.8	4679.7	4943.8	4975.1	5799.6	6384.1	6140.3	3966.9
50°	4982.9	5007.1	4997.7	4969.6	4964.9	5200.9	5276.7	6097.3	6808.5	6678.7	4291.2
52.5°	5340.8	5369.7	5379.9	5340.0	5322.1	5384.6	5519.8	6368.5	7194.5	7141.4	4637.5
55°	5557.3	5603.4	5758.1	5820.7	5863.6	5622.2	5781.6	6667.8	7540.7	7629.1	5009.5
57.5°	5279.9	5339.2	5685.5	5998.1	6402.1	6216.1	6152.8	6980.4	7887.0	8101.9	5454.9
60°	4603.1	4616.4	5062.6	5638.6	6451.3	6979.6	6927.3	7477.4	8262.1	8578.6	6041.8
62.5°	3193.2	3221.4	3748.9	4667.9	5843.3	7254.7	8244.9	8335.5	8799.8	9292.1	6902.3
65°	1646.6	1609.9	2090.5	2933.8	4405.3	6601.4	9312.4	9913.4	9965.8	10408.1	8113.6
67.5°	1013.6	1030.0	1255.1	1713.1	2604.8	4797.7	9200.7	11841.4	11565.5	11778.1	9238.2
70°	761.2	781.5	936.2	1172.3	1588.0	2743.1	7399.3	12308.7	12694.0	12639.3	9580.5
71°	661.9	683.0	844.0	1066.8	1334.0	2117.1	6234.1	11819.5	12733.1	12723.7	9451.5
72.5°	564.2	577.5	703.4	903.4	1124.6	1484.1	4683.6	10600.3	12189.9	12501.7	8991.2
75°	443.1	453.3	509.5	689.3	885.4	911.2	2513.3	7947.1	10011.9	10605.8	7485.3
77.5°	361.1	368.1	397.0	511.9	683.0	645.5	1318.4	5172.8	6272.4	6870.2	4409.3
80°	286.8	294.6	311.8	347.0	511.9	460.3	629.1	2621.2	3029.9	3023.6	1760.0
82.5°	222.7	225.1	245.4	254.8	350.1	326.7	340.7	1109.7	1229.3	1269.9	635.4
85°	140.7	147.7	217.3	195.4	209.4	191.5	168.0	440.8	543.1	535.3	254.0
87.5°	43.0	45.3	73.5	82.8	93.0	83.6	61.7	129.7	158.6	171.9	63.3
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°	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1
2.5°	1755.3	1746.7	1716.2	1691.2	1667.7	1641.9	1620.1	1613.8	1608.3	1606.0	1605.2
5°	1771.7	1745.9	1685.7	1636.5	1597.4	1561.4	1538.8	1528.6	1518.5	1518.5	1521.6
7.5°	1795.1	1748.2	1655.2	1581.8	1532.5	1498.9	1482.5	1481.0	1483.3	1485.6	1486.4
10°	1820.9	1746.7	1610.7	1519.2	1475.5	1459.9	1460.6	1473.9	1486.4	1495.8	1497.4
12.5°	1845.9	1737.3	1558.3	1460.6	1432.5	1435.6	1457.5	1487.2	1511.4	1524.7	1525.5
15°	1874.1	1722.4	1495.0	1405.1	1395.8	1420.0	1460.6	1506.0	1542.7	1564.6	1566.9
17.5°	1897.5	1697.4	1428.6	1351.2	1362.9	1407.5	1463.8	1522.4	1566.9	1594.3	1599.0
20°	1924.1	1665.4	1359.8	1299.6	1333.2	1393.4	1457.5	1520.8	1566.9	1593.5	1599.7
22.5°	1945.2	1620.1	1294.2	1257.4	1306.7	1376.2	1436.4	1487.2	1524.7	1538.8	1548.2
25°	1953.8	1563.0	1232.4	1223.1	1285.6	1348.1	1388.7	1417.7	1429.4	1427.8	1431.7
27.5°	1949.1	1497.4	1179.3	1195.7	1259.0	1304.3	1324.7	1322.3	1301.2	1281.7	1291.0
30°	1929.5	1419.2	1134.7	1167.6	1224.6	1249.6	1246.5	1216.0	1176.2	1139.4	1141.8
32.5°	1894.4	1334.8	1093.3	1135.5	1176.2	1187.1	1166.0	1126.1	1069.1	1021.4	1014.4
35°	1864.7	1254.3	1056.6	1098.8	1127.7	1122.2	1101.9	1050.3	998.8	956.6	949.5
37.5°	1860.0	1185.5	1021.4	1057.4	1073.8	1066.0	1041.0	997.2	978.4	946.4	942.5
40°	1885.0	1137.1	985.5	1013.6	1021.4	1015.2	987.8	962.8	980.0	972.2	972.2
42.5°	1953.0	1111.3	953.4	969.8	976.1	980.8	961.3	940.2	961.3	925.3	913.6
45°	2060.8	1112.1	924.5	926.9	945.6	962.0	948.7	917.5	906.5	834.6	820.6
47.5°	2219.5	1138.7	901.1	886.2	919.8	947.2	928.4	883.1	834.6	787.0	778.4
50°	2404.7	1186.3	880.0	844.0	885.4	928.4	914.4	861.2	811.2	782.3	776.8
52.5°	2610.2	1246.5	854.2	797.1	843.2	919.8	917.5	858.1	789.3	769.8	765.1
55°	2864.2	1305.9	822.1	742.4	805.7	912.8	908.9	832.3	784.6	770.6	769.0
57.5°	3159.6	1391.9	776.0	686.9	762.7	883.9	875.3	816.7	769.0	758.8	758.1
60°	3635.6	1525.5	710.4	636.1	719.0	833.1	844.0	790.1	744.0	741.6	740.9
62.5°	4261.5	1713.1	642.4	583.8	668.2	767.4	798.7	754.2	717.4	729.1	730.7
65°	5125.9	1870.9	572.1	539.2	611.9	704.1	755.7	720.5	687.7	710.4	710.4
67.5°	5689.4	1874.1	508.0	493.1	554.9	651.0	710.4	680.7	649.4	687.7	689.3
70°	5572.1	1641.9	454.8	444.7	499.4	593.9	660.4	636.9	601.0	635.4	622.9
71°	5383.0	1513.0	433.7	425.9	477.5	566.6	636.9	617.4	581.4	604.1	597.1
72.5°	5081.3	1313.7	399.3	400.9	444.7	532.2	604.1	583.8	547.8	560.3	558.0
75°	4295.2	1147.3	341.5	348.6	382.2	473.6	538.5	522.8	486.1	486.1	483.8
77.5°	2685.3	801.8	283.7	287.6	324.3	405.6	462.7	449.4	414.2	402.5	399.3
80°	1001.9	414.2	221.9	226.6	249.3	319.6	382.9	370.4	334.5	321.2	308.7
82.5°	379.0	207.9	163.3	159.4	183.7	243.8	300.1	285.2	257.1	225.1	215.7
85°	143.0	103.2	100.0	96.9	107.8	144.6	186.0	182.9	153.2	130.5	128.2
87.5°	37.5	33.6	39.1	28.9	30.5	27.4	28.1	11.7	5.5	2.3	1.6
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)