

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: P451865

Luminaire Tested: **GALN-SA2D-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14050 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

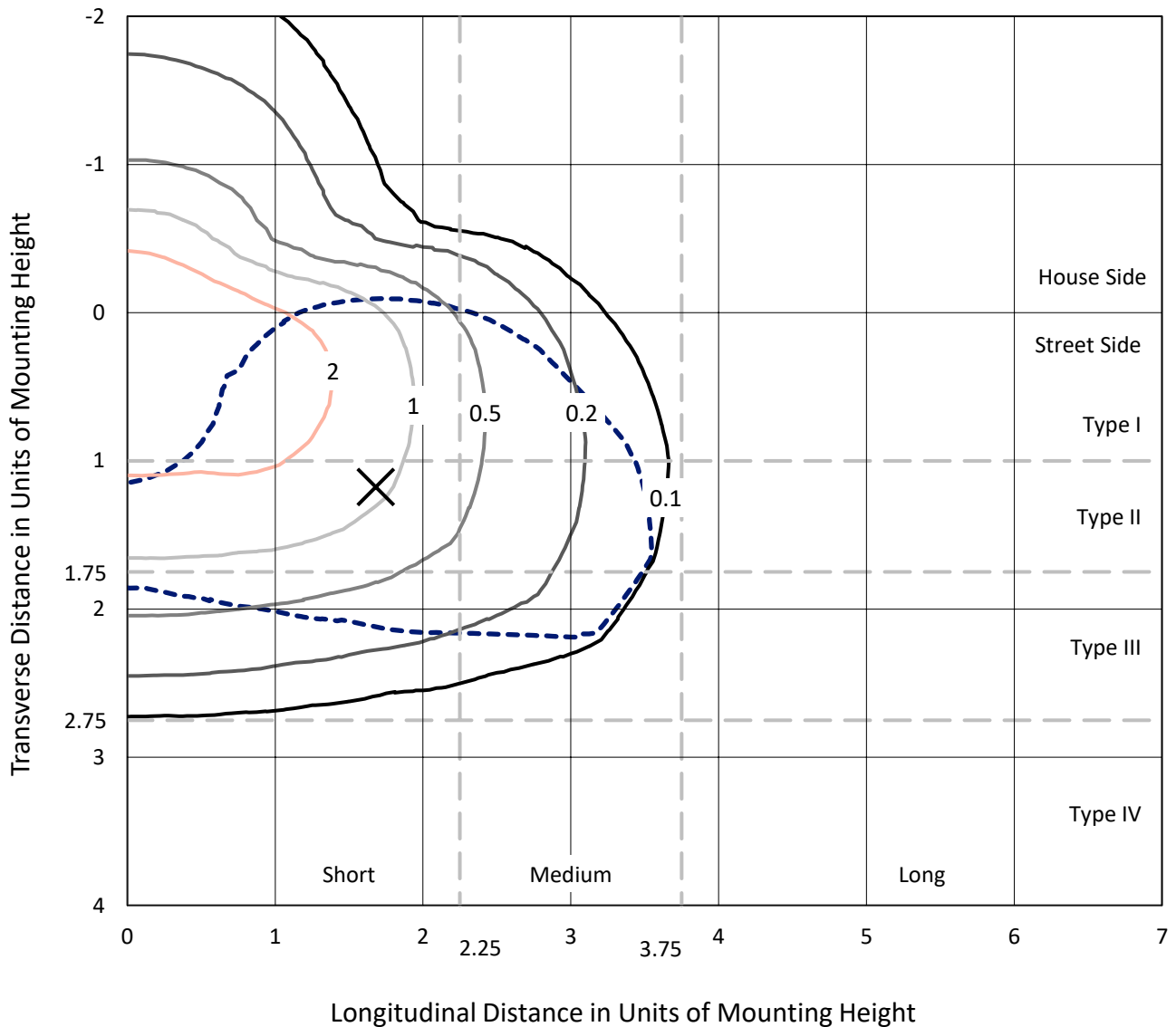
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

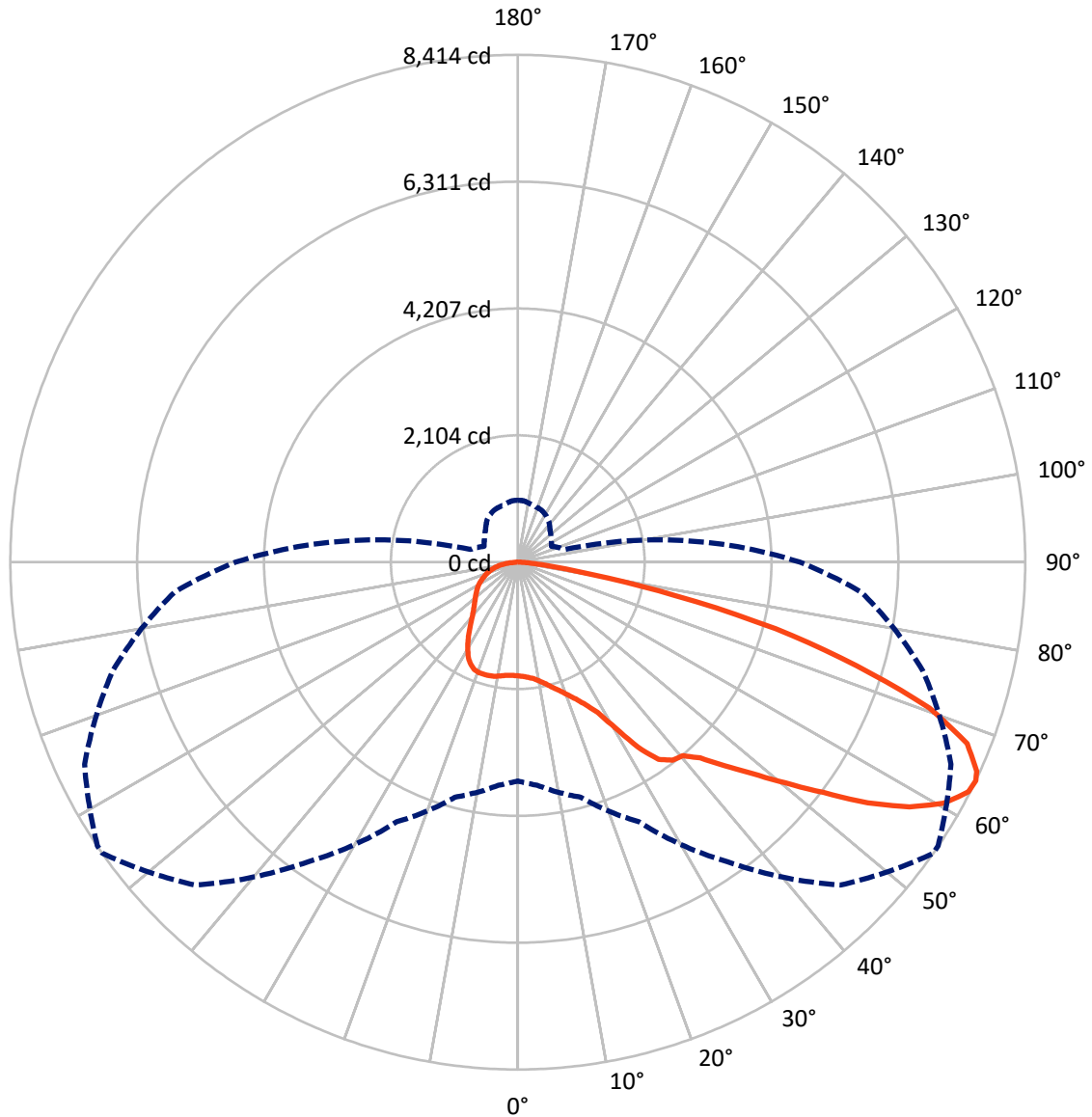
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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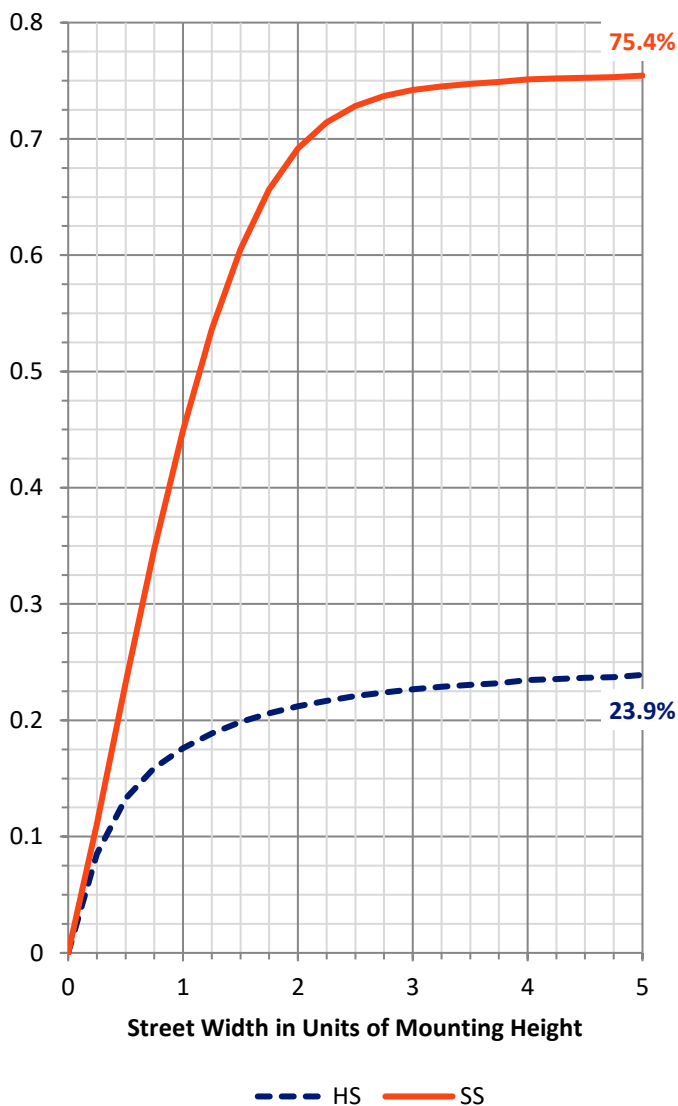
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3413.0	0.0	3413.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	10637.0	0.0	10637.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	14050.0	0.0	14050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	1.3
10°-20°	578.6	4.1
20°-30°	1030.0	7.3
30°-40°	1584.8	11.3
40°-50°	2246.6	16.0
50°-60°	3251.9	23.1
60°-70°	3365.4	24.0
70°-80°	1576.0	11.2
80°-90°	233.3	1.7
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°	14050.0	100.0
0°-180°	14050.0	100.0

Coefficient of Utilization



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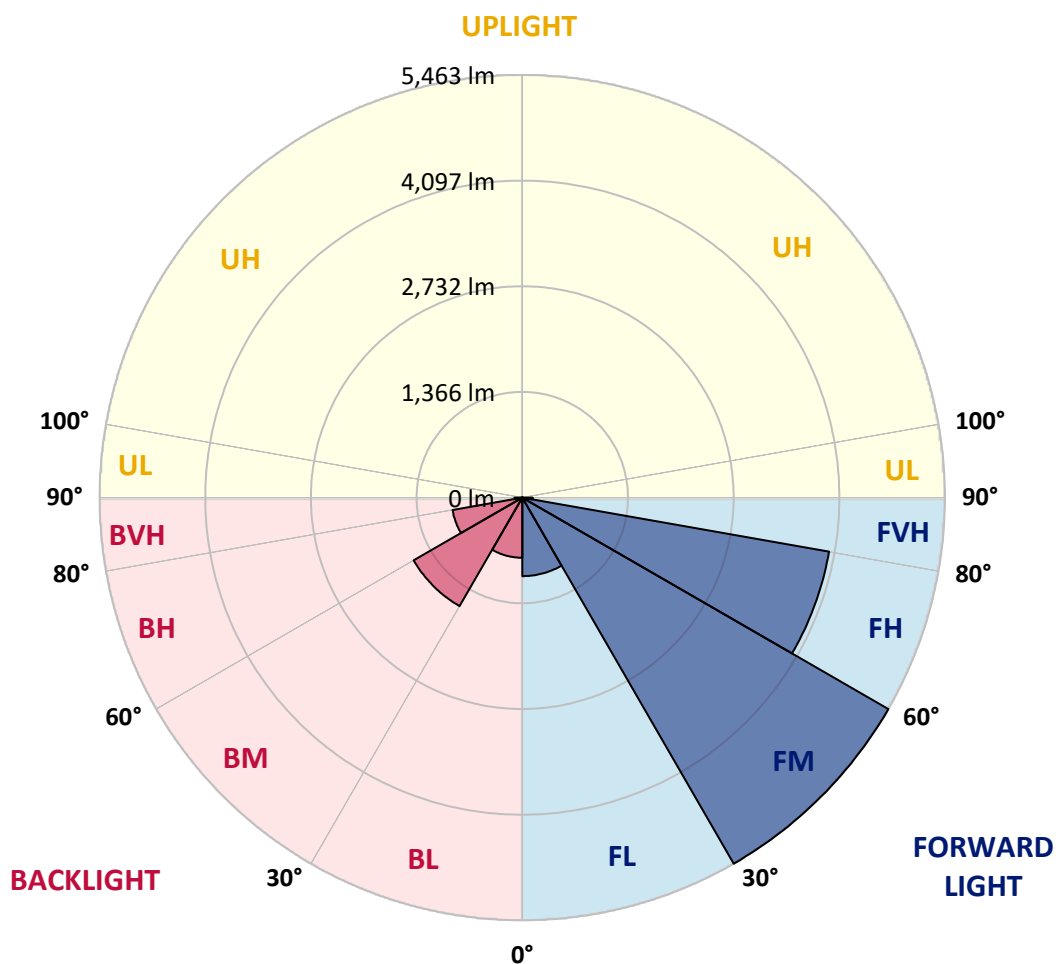
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1014.6	7.2			
FM	(30°-60°)	5463.0	38.9			
FH	(60°-80°)	4025.7	28.7			G2/5000
FVH	(80°-90°)	133.6	1.0			G2/225
BL	(0°-30°)	777.4	5.5	B2/1000		
BM	(30°-60°)	1620.3	11.5	B2/2500		
BH	(60°-80°)	915.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	99.7	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1
2.5°	1906.2	1905.4	1907.8	1905.4	1907.0	1901.5	1899.2	1900.7	1898.4	1894.5	1887.4
5°	1929.7	1928.9	1929.7	1926.6	1928.2	1925.0	1919.5	1921.1	1917.2	1908.6	1898.4
7.5°	1969.7	1966.5	1966.5	1965.8	1962.6	1957.9	1954.0	1952.4	1948.5	1937.6	1921.9
10°	2021.4	2021.4	2022.1	2015.9	2019.8	2011.2	2007.3	2006.5	1993.2	1979.1	1957.1
12.5°	2089.5	2093.4	2091.1	2087.9	2086.4	2083.2	2069.9	2073.0	2058.2	2033.9	2007.3
15°	2174.1	2180.3	2176.4	2174.9	2170.9	2159.2	2153.7	2151.4	2131.8	2096.5	2061.3
17.5°	2286.1	2278.2	2275.1	2271.2	2254.7	2246.1	2236.7	2235.2	2217.9	2176.4	2121.6
20°	2384.0	2394.9	2388.7	2384.7	2368.3	2351.9	2344.8	2342.5	2327.6	2282.2	2194.4
22.5°	2500.7	2503.0	2505.4	2496.0	2488.1	2475.6	2463.1	2459.1	2453.7	2406.7	2299.4
25°	2625.2	2634.6	2626.7	2617.3	2608.0	2607.2	2618.9	2617.3	2615.0	2569.6	2438.8
27.5°	2828.0	2836.6	2839.0	2828.8	2792.8	2795.9	2822.5	2831.2	2867.2	2792.0	2618.1
30°	2942.4	2951.0	2970.6	3008.9	3066.1	3116.2	3180.4	3200.0	3234.5	3092.7	2831.2
32.5°	3012.8	3016.0	3051.2	3122.5	3294.0	3481.2	3655.8	3662.9	3684.8	3485.9	3026.2
35°	3124.1	3126.4	3154.6	3232.9	3434.2	3745.9	4016.1	4024.7	4006.7	3608.1	3117.0
37.5°	3261.1	3267.4	3285.4	3350.4	3590.8	3967.5	4165.7	4159.4	3999.6	3705.2	3277.6
40°	3460.8	3460.8	3439.7	3527.4	3756.1	4094.4	4218.1	4207.2	4164.9	3986.3	3521.9
42.5°	3637.0	3633.9	3684.0	3743.5	3962.8	4290.2	4438.2	4456.2	4525.9	4339.5	3799.9
45°	3866.5	3880.6	3908.8	4016.9	4314.5	4624.6	4815.7	4832.9	4931.6	4755.4	4124.9
47.5°	4098.3	4103.0	4191.5	4335.6	4749.9	5078.1	5234.7	5262.9	5353.0	5241.7	4475.0
50°	4262.8	4307.4	4449.2	4676.3	5198.7	5631.0	5753.2	5786.8	5945.8	5771.2	4883.1
52.5°	4436.6	4480.5	4653.6	4999.7	5714.0	6196.4	6346.8	6369.5	6534.8	6306.9	5300.5
55°	4585.4	4626.2	4822.7	5286.4	6124.4	6773.6	7046.2	7019.5	7098.6	6719.6	5622.4
57.5°	4609.7	4642.6	4890.1	5469.6	6432.9	7268.6	7659.4	7675.0	7583.4	7028.2	5887.9
60°	4421.8	4489.1	4773.4	5450.1	6571.6	7613.2	8116.8	8127.7	7867.7	7186.4	5993.6
62.5°	4088.9	4081.9	4425.7	5135.2	6377.3	7691.5	8386.2	8374.4	7978.9	7110.4	5891.0
64°	3629.2	3713.8	4034.9	4748.3	6064.1	7570.9	8414.4	8408.1	7925.7	6952.2	5716.3
65°	3348.8	3344.1	3661.3	4431.9	5752.4	7389.2	8364.2	8355.6	7814.5	6810.4	5580.9
67.5°	2417.6	2428.6	2741.9	3420.1	4676.3	6678.9	8037.7	8005.5	7375.9	6340.5	5065.5
70°	1464.5	1470.8	1716.7	2268.8	3356.7	5399.2	7245.1	7246.7	6704.7	5638.8	4311.3
72.5°	771.4	787.9	886.5	1288.3	2038.6	3788.2	5877.7	6017.1	5756.3	4812.6	3406.0
75°	429.2	431.5	501.2	635.1	1040.0	2120.0	4417.9	4457.8	4557.3	3873.6	2518.7
77.5°	327.4	332.1	354.0	410.4	566.2	982.9	2673.7	2874.2	3211.8	2730.9	1437.1
80°	265.5	270.2	289.0	322.7	376.7	466.0	1242.1	1350.2	1719.1	1212.3	560.7
82.5°	206.8	203.6	227.9	249.8	274.1	275.7	509.8	563.9	700.2	521.6	242.8
85°	153.5	153.5	173.1	168.4	177.0	161.3	224.8	248.3	280.4	221.6	112.8
87.5°	61.1	67.4	113.6	101.8	79.1	63.4	83.0	87.7	97.1	86.9	47.0
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°	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1	1885.1
2.5°	1888.2	1890.6	1885.1	1881.2	1879.6	1877.3	1874.9	1875.7	1878.8	1882.0	1881.2
5°	1897.6	1898.4	1889.0	1884.3	1881.2	1878.0	1878.0	1880.4	1886.7	1891.4	1891.4
7.5°	1921.1	1921.1	1907.8	1899.2	1894.5	1889.0	1887.4	1888.2	1892.9	1899.2	1900.0
10°	1957.9	1954.8	1937.6	1924.2	1915.6	1902.3	1890.6	1884.3	1886.7	1890.6	1890.6
12.5°	2002.6	1993.9	1972.0	1954.0	1932.9	1907.8	1883.5	1871.0	1870.2	1874.1	1872.6
15°	2050.3	2040.9	2010.4	1977.5	1940.7	1903.9	1874.9	1856.9	1842.8	1838.9	1847.5
17.5°	2105.9	2086.4	2044.1	1998.6	1943.8	1896.1	1850.6	1813.8	1788.8	1781.7	1784.1
20°	2173.3	2147.4	2090.3	2019.0	1941.5	1867.9	1797.4	1748.0	1707.3	1694.8	1696.3
22.5°	2266.5	2221.8	2138.0	2029.2	1921.9	1814.6	1716.7	1652.5	1603.1	1583.6	1595.3
25°	2372.2	2323.7	2183.5	2026.8	1871.0	1729.2	1621.2	1537.4	1492.7	1463.7	1470.0
27.5°	2517.9	2431.7	2232.0	2005.7	1798.2	1625.1	1499.8	1420.7	1379.9	1365.1	1372.1
30°	2704.3	2571.9	2284.5	1948.5	1683.0	1493.5	1377.6	1325.9	1301.6	1282.8	1289.1
32.5°	2839.0	2670.6	2296.2	1852.2	1558.5	1373.7	1294.6	1256.2	1229.6	1211.6	1215.5
35°	2935.3	2754.4	2290.8	1733.9	1428.5	1275.0	1228.8	1197.5	1154.4	1115.2	1108.2
37.5°	3064.5	2859.3	2250.8	1604.7	1300.1	1208.4	1175.5	1117.6	1055.7	1003.2	1000.9
40°	3262.7	2982.3	2165.5	1452.8	1190.4	1159.1	1119.1	1044.0	977.4	935.1	932.0
42.5°	3467.1	3095.9	2049.6	1293.0	1100.4	1107.4	1058.8	984.4	943.7	916.3	913.2
45°	3716.9	3218.8	1924.2	1154.4	1033.8	1058.8	1006.4	963.3	939.0	921.0	916.3
47.5°	3987.1	3344.9	1783.3	1029.9	977.4	1014.2	984.4	964.9	951.5	939.0	933.5
50°	4278.4	3485.9	1650.9	929.6	926.5	968.0	982.1	975.0	967.2	963.3	958.6
52.5°	4598.0	3630.0	1539.7	859.1	881.8	935.1	982.9	988.4	988.4	986.0	982.9
55°	4814.1	3730.2	1426.9	802.0	836.4	908.5	981.3	1002.5	1010.3	1007.2	1004.0
57.5°	4973.9	3785.1	1285.2	752.6	798.0	882.6	972.7	1004.0	1011.9	1015.8	1014.2
60°	5006.8	3734.1	1099.6	700.9	756.5	845.0	941.4	980.5	990.7	1015.0	1017.3
62.5°	4858.8	3577.5	914.7	650.0	705.6	787.9	899.1	953.9	974.3	1011.9	1015.8
64°	4677.1	3402.1	812.1	617.9	672.7	755.8	877.9	946.9	973.5	1023.6	1026.7
65°	4543.9	3274.4	747.9	597.6	651.6	734.6	866.2	949.2	980.5	1041.6	1046.3
67.5°	4053.7	2835.1	618.7	549.8	601.5	698.6	868.5	968.8	979.0	1048.7	1047.9
70°	3354.3	2257.1	518.5	505.9	552.9	669.6	859.1	937.5	938.2	984.4	973.5
72.5°	2511.6	1668.1	449.5	460.5	498.9	600.7	811.4	895.2	881.8	888.1	877.1
75°	1725.3	1103.5	386.9	411.9	442.5	531.0	744.0	812.9	791.8	784.0	776.1
77.5°	921.0	610.1	321.9	364.2	384.5	458.9	649.2	715.8	693.9	663.3	653.2
80°	372.8	287.4	259.2	301.5	313.3	369.7	540.4	581.9	565.4	512.2	495.0
82.5°	187.2	172.3	203.6	237.3	238.1	263.9	401.8	440.9	404.1	339.1	324.2
85°	97.9	101.0	140.2	166.8	147.2	142.5	241.2	267.1	245.1	213.0	191.9
87.5°	35.2	40.7	73.6	72.8	51.7	27.4	53.3	25.8	14.1	8.6	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

(END OF REPORT)