

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: P527881

Luminaire Tested: **GALN-SA2D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7519 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

Input Watts (W): 125
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

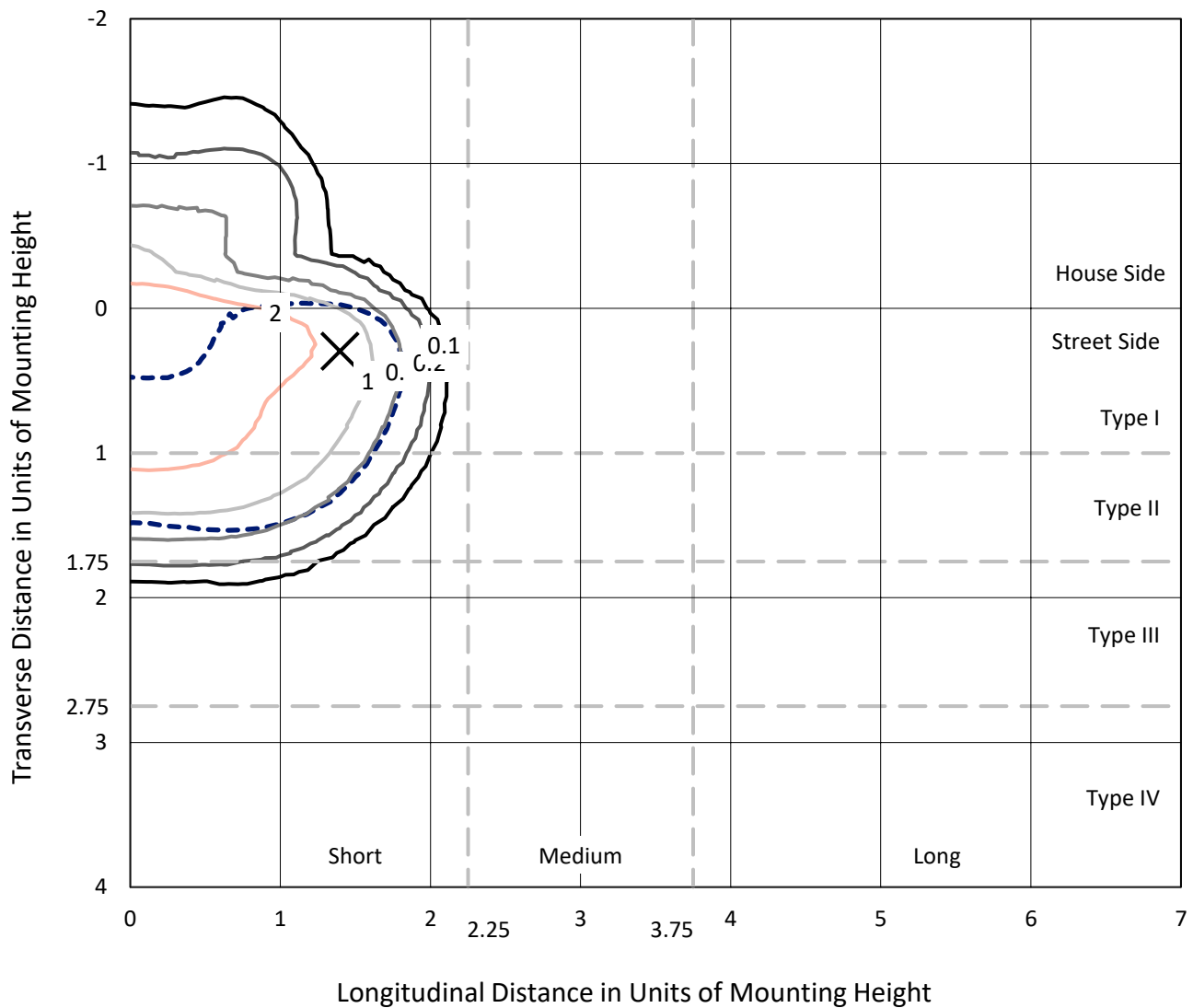


REPORT NUMBER: P527881

CATALOG NUMBER: GALN-SA2D-830-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

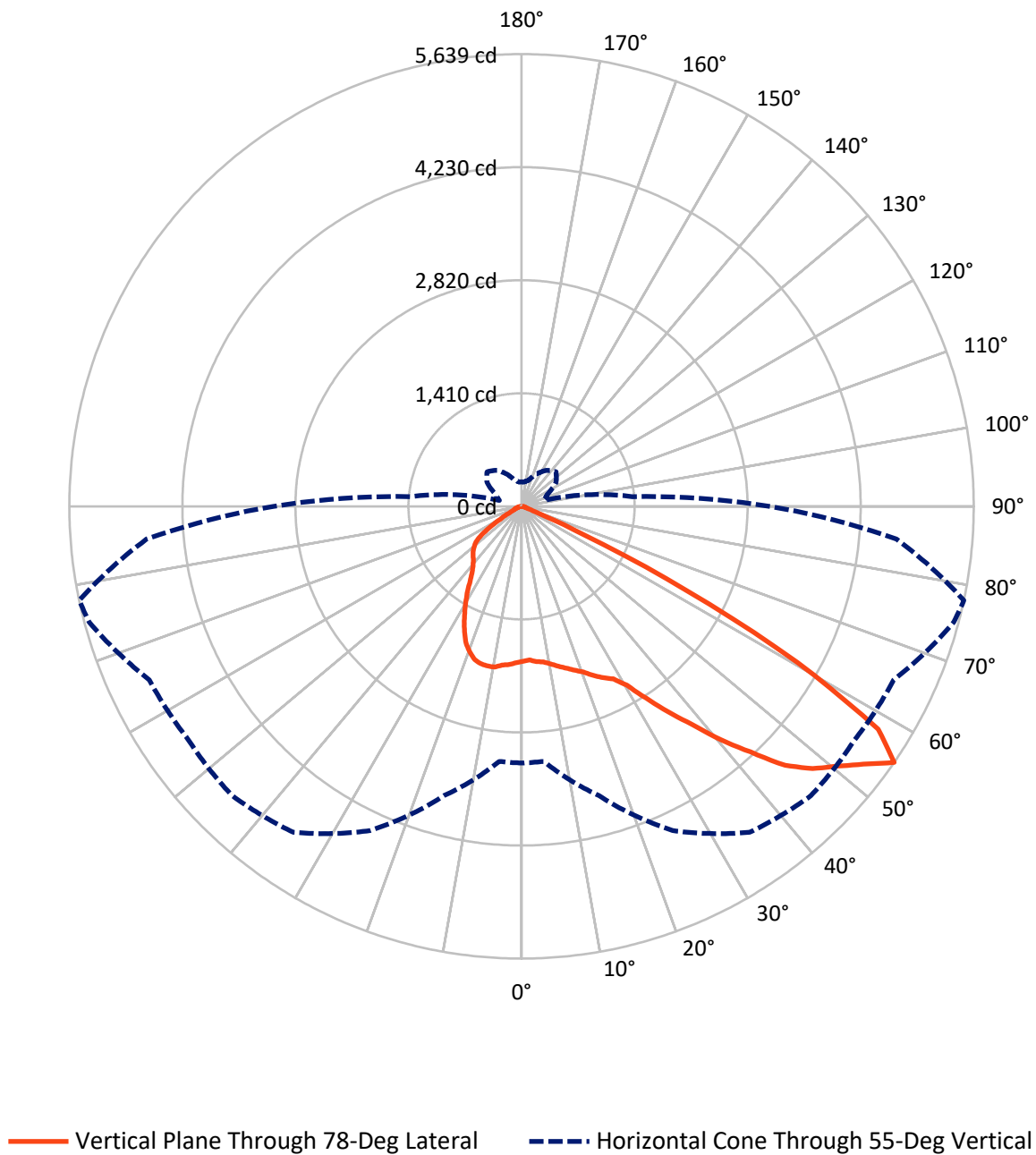


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

REPORT NUMBER: P527881

CATALOG NUMBER: GALN-SA2D-830-U-T3R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P527881

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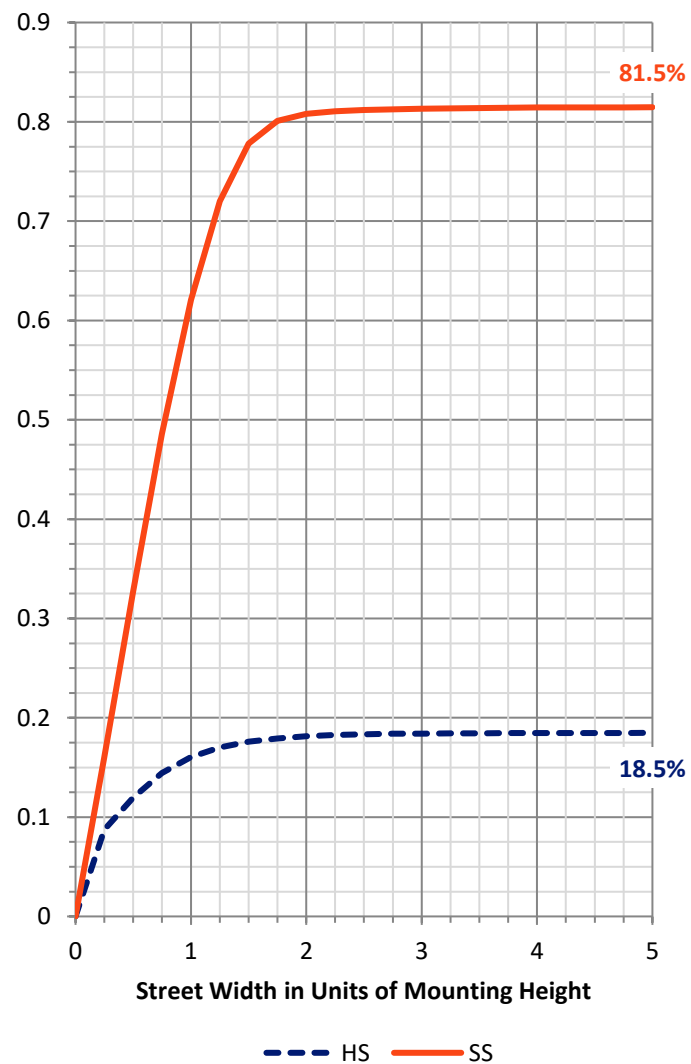
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.6	0.0	1396.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6122.4	0.0	6122.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	7519.0	0.0	7519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	2.3
10°-20°	456.2	6.1
20°-30°	799.6	10.6
30°-40°	1318.5	17.5
40°-50°	1918.6	25.5
50°-60°	2173.9	28.9
60°-70°	621.6	8.3
70°-80°	48.3	0.6
80°-90°	10.0	0.1
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°	7519.0	100.0
0°-180°	7519.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527881

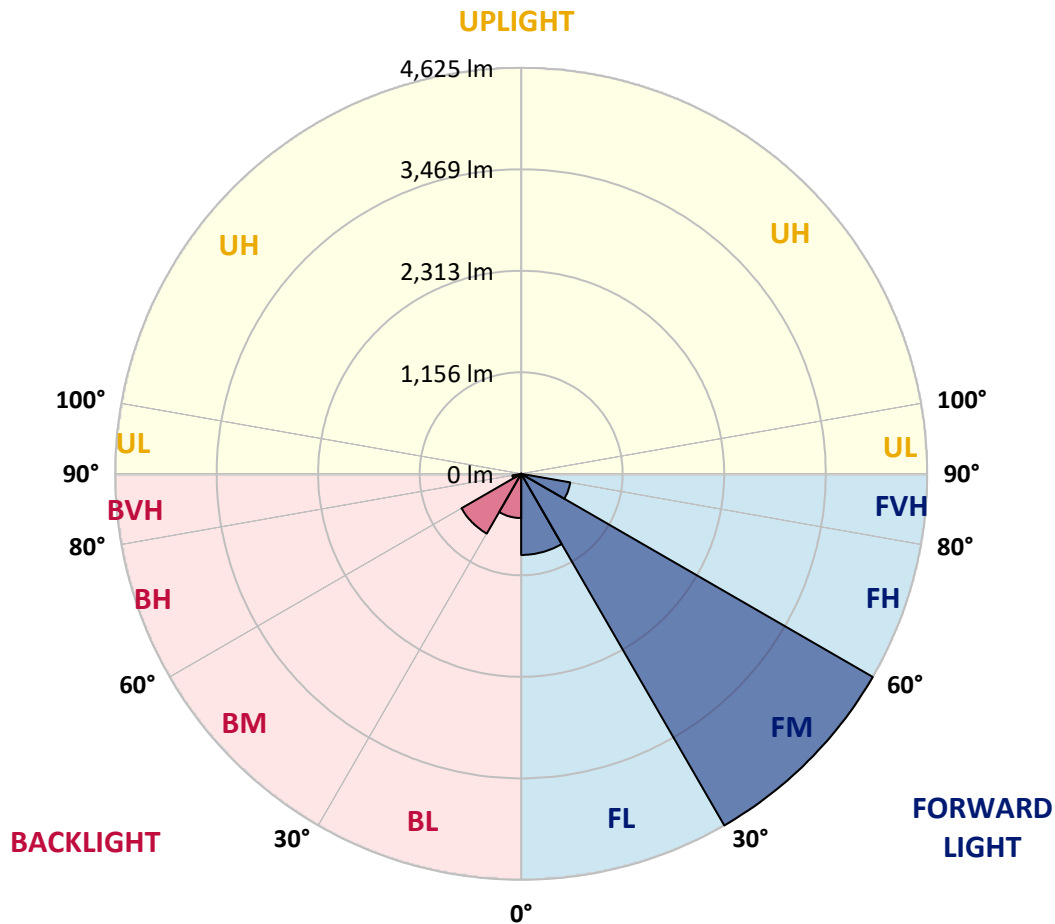
CATALOG NUMBER: GALN-SA2D-830-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.3	12.3			
FM	(30°-60°)	4625.4	61.5			
FH	(60°-80°)	567.9	7.6			G0/660
FVH	(80°-90°)	4.9	0.1			G0/10
BL	(0°-30°)	503.9	6.7	B2/1000		
BM	(30°-60°)	785.6	10.4	B1/1000		
BH	(60°-80°)	101.9	1.4	B0/110		G0/110
BVH	(80°-90°)	5.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short



REPORT NUMBER: P527881

CATALOG NUMBER: GALN-SA2D-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1
2.5°	1817.5	1835.0	1837.7	1859.2	1857.9	1894.2	1904.9	1906.3	1930.5	1918.4	1949.3
5°	1766.4	1757.0	1753.0	1790.6	1801.4	1833.7	1860.5	1876.7	1926.4	1943.9	1976.2
7.5°	1720.7	1720.7	1723.4	1757.0	1753.0	1794.7	1822.9	1872.6	1945.2	1960.0	1999.0
10°	1676.4	1660.2	1680.4	1715.4	1744.9	1763.8	1822.9	1870.0	1954.6	1997.7	2051.4
12.5°	1653.5	1661.6	1664.3	1689.8	1722.1	1778.5	1810.8	1888.8	2021.9	2047.4	2105.2
15°	1797.4	1781.2	1742.2	1719.4	1746.3	1773.2	1853.8	1933.1	2056.8	2093.1	2157.6
17.5°	1964.1	1950.6	1918.4	1856.5	1796.0	1845.8	1908.9	1981.5	2094.5	2148.2	2243.7
20°	2181.8	2160.3	2128.1	2007.1	1954.6	1900.9	1968.1	2054.1	2156.3	2204.7	2302.8
22.5°	2441.3	2441.3	2368.7	2222.2	2113.3	2062.2	2090.4	2140.2	2224.9	2290.7	2387.5
25°	2711.5	2703.4	2637.6	2485.7	2301.5	2241.0	2273.3	2308.2	2331.1	2367.4	2431.9
27.5°	3020.7	2973.6	2890.3	2722.3	2559.6	2442.6	2477.6	2446.7	2418.4	2437.3	2530.0
30°	3230.4	3260.0	3153.8	2992.5	2839.2	2708.8	2715.5	2688.6	2559.6	2586.5	2641.6
32.5°	3448.2	3467.0	3407.9	3319.1	3165.9	3014.0	2958.9	2936.0	2839.2	2851.3	2797.5
35°	3629.7	3666.0	3613.5	3574.6	3530.2	3407.9	3256.0	3329.9	3174.0	3144.4	3004.6
37.5°	3796.4	3785.6	3847.5	3807.1	3797.7	3711.7	3545.0	3559.8	3454.9	3448.2	3286.9
40°	3945.6	3948.3	4033.0	4051.8	4014.2	3860.9	3618.9	3735.9	3820.6	3828.6	3621.6
42.5°	4069.3	4105.6	4178.2	4330.1	4273.6	4018.2	3695.5	3823.3	4137.8	4187.6	3938.9
45°	4176.8	4250.8	4340.8	4476.6	4444.3	4241.3	3886.4	4003.4	4476.6	4607.0	4237.3
47.5°	4183.5	4280.3	4378.5	4580.1	4620.4	4361.0	4084.1	4288.4	4745.5	4886.6	4455.1
50°	4156.7	4207.7	4404.0	4623.1	4714.5	4555.9	4361.0	4527.7	5006.3	5095.0	4565.3
52.5°	3838.0	3877.0	4270.9	4663.5	4883.9	4776.4	4728.0	4861.1	5272.4	5338.3	4668.8
55°	3199.5	3192.8	3734.5	4460.5	4961.9	5103.1	5073.5	5120.5	5580.3	5639.4	4694.4
57.5°	2188.6	2310.9	2778.7	3714.4	4484.7	5026.4	5057.4	4979.4	5221.4	5244.2	4092.1
60°	1180.3	1231.4	1607.8	2478.9	3414.6	4096.2	4176.8	4035.7	4016.8	3952.3	2921.2
62.5°	469.2	494.7	708.5	1227.4	1860.5	2489.7	2663.1	2605.3	2481.6	2312.2	1512.4
65°	223.2	239.3	352.2	574.0	825.4	1037.8	1211.2	1265.0	933.0	840.2	498.7
67.5°	151.9	164.0	256.8	328.0	294.4	307.9	400.6	372.4	219.1	186.9	138.5
70°	115.6	123.7	205.7	223.2	131.7	92.8	103.5	96.8	90.1	91.4	90.1
72.5°	82.0	88.7	150.6	131.7	57.8	43.0	55.1	65.9	65.9	65.9	64.5
75°	49.7	56.5	87.4	51.1	22.9	22.9	35.0	44.4	47.1	48.4	45.7
77.5°	25.5	32.3	29.6	14.8	14.8	17.5	25.5	30.9	33.6	33.6	32.3
80°	5.4	5.4	5.4	8.1	14.8	18.8	25.5	28.2	32.3	32.3	29.6
82.5°	0.0	1.3	4.0	8.1	13.4	17.5	24.2	28.2	32.3	33.6	30.9
85°	0.0	1.3	2.7	5.4	9.4	10.8	9.4	8.1	8.1	8.1	8.1
87.5°	0.0	0.0	1.3	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P527881

CATALOG NUMBER: GALN-SA2D-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1
2.5°	1952.0	1956.0	1949.3	1947.9	1942.5	1958.7	1919.7	1910.3	1934.5	1911.6	1917.0
5°	1977.5	1986.9	1974.8	1954.6	1925.1	1879.4	1840.4	1789.3	1765.1	1747.6	1744.9
7.5°	1996.3	2003.0	1990.9	1926.4	1837.7	1722.1	1636.0	1572.9	1523.1	1508.3	1484.1
10°	2072.9	2074.3	2013.8	1871.3	1697.9	1546.0	1414.2	1317.4	1267.7	1236.8	1223.3
12.5°	2124.0	2121.3	1999.0	1762.4	1531.2	1329.5	1179.0	1062.0	1016.3	1001.5	992.1
15°	2188.6	2173.8	1964.1	1650.8	1316.1	1098.3	962.5	881.9	877.8	868.4	877.8
17.5°	2239.6	2198.0	1913.0	1447.8	1110.4	904.7	816.0	821.4	832.1	841.5	842.9
20°	2323.0	2237.0	1796.0	1270.4	919.5	775.7	774.3	798.5	825.4	836.2	846.9
22.5°	2386.2	2253.1	1671.0	1080.8	763.6	723.2	746.1	782.4	802.6	813.3	829.4
25°	2409.0	2208.7	1504.3	891.3	688.3	699.0	734.0	758.2	783.7	795.8	789.1
27.5°	2431.9	2185.9	1305.3	734.0	648.0	682.9	712.5	736.7	744.8	760.9	771.6
30°	2487.0	2106.6	1126.5	634.5	627.8	672.2	693.7	701.7	723.2	732.7	732.7
32.5°	2531.4	2075.6	937.0	587.5	625.1	677.5	680.2	680.2	682.9	676.2	673.5
35°	2622.8	1969.4	767.6	559.2	623.8	678.9	685.6	662.8	600.9	576.7	570.0
37.5°	2735.7	1900.9	642.6	552.5	633.2	695.0	705.8	619.7	539.1	500.1	493.4
40°	2872.8	1852.5	560.6	549.8	654.7	732.7	700.4	586.1	481.3	424.8	422.1
42.5°	3032.8	1808.1	505.5	548.5	681.6	771.6	695.0	557.9	422.1	384.5	389.9
45°	3160.5	1783.9	467.8	539.1	691.0	794.5	699.0	508.2	397.9	373.7	376.4
47.5°	3260.0	1732.8	436.9	522.9	689.6	802.6	662.8	488.0	385.8	392.5	399.3
50°	3262.7	1664.3	397.9	488.0	669.5	787.8	621.1	469.2	383.1	411.4	424.8
52.5°	3226.4	1567.5	356.2	438.2	622.4	736.7	583.4	461.1	371.0	368.3	384.5
55°	3097.3	1386.0	286.3	354.9	525.6	607.6	549.8	446.3	334.7	303.8	306.5
57.5°	2503.1	993.5	211.1	254.1	372.4	445.0	496.1	439.6	301.1	258.1	259.5
60°	1550.0	563.3	154.6	173.4	229.9	270.2	402.0	408.7	268.9	217.8	215.1
62.5°	795.8	278.3	119.6	122.3	141.2	158.6	275.6	342.8	243.3	207.0	207.0
65°	266.2	137.1	104.9	94.1	94.1	98.1	166.7	237.9	205.7	173.4	173.4
67.5°	114.3	102.2	91.4	82.0	75.3	71.2	94.1	138.5	153.3	131.7	126.4
70°	88.7	86.0	79.3	68.6	59.2	53.8	55.1	71.2	87.4	84.7	82.0
72.5°	65.9	65.9	63.2	53.8	45.7	39.0	36.3	37.6	41.7	43.0	44.4
75°	45.7	47.1	47.1	41.7	33.6	28.2	24.2	20.2	16.1	13.4	12.1
77.5°	30.9	32.3	35.0	30.9	25.5	18.8	14.8	10.8	6.7	2.7	2.7
80°	26.9	30.9	33.6	30.9	26.9	20.2	14.8	8.1	4.0	0.0	0.0
82.5°	28.2	30.9	35.0	29.6	25.5	18.8	14.8	9.4	4.0	1.3	0.0
85°	6.7	6.7	8.1	9.4	12.1	13.4	10.8	6.7	4.0	1.3	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	0.0	0.0
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)