

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387067

Luminaire Tested: GAW-SA2D-735-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-735-U-T2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14927.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

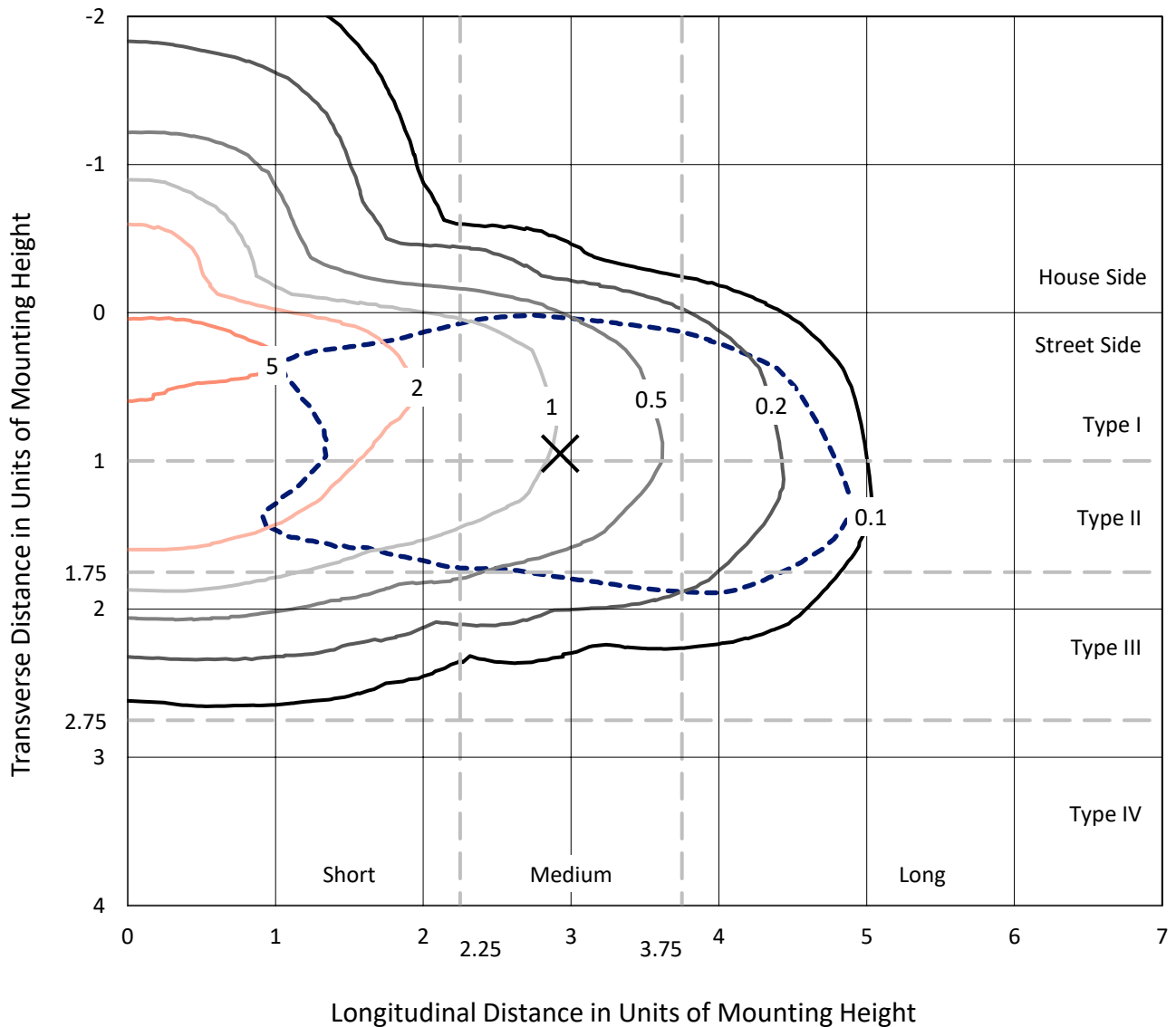
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P387067
 CATALOG NUMBER: GAW-SA2D-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

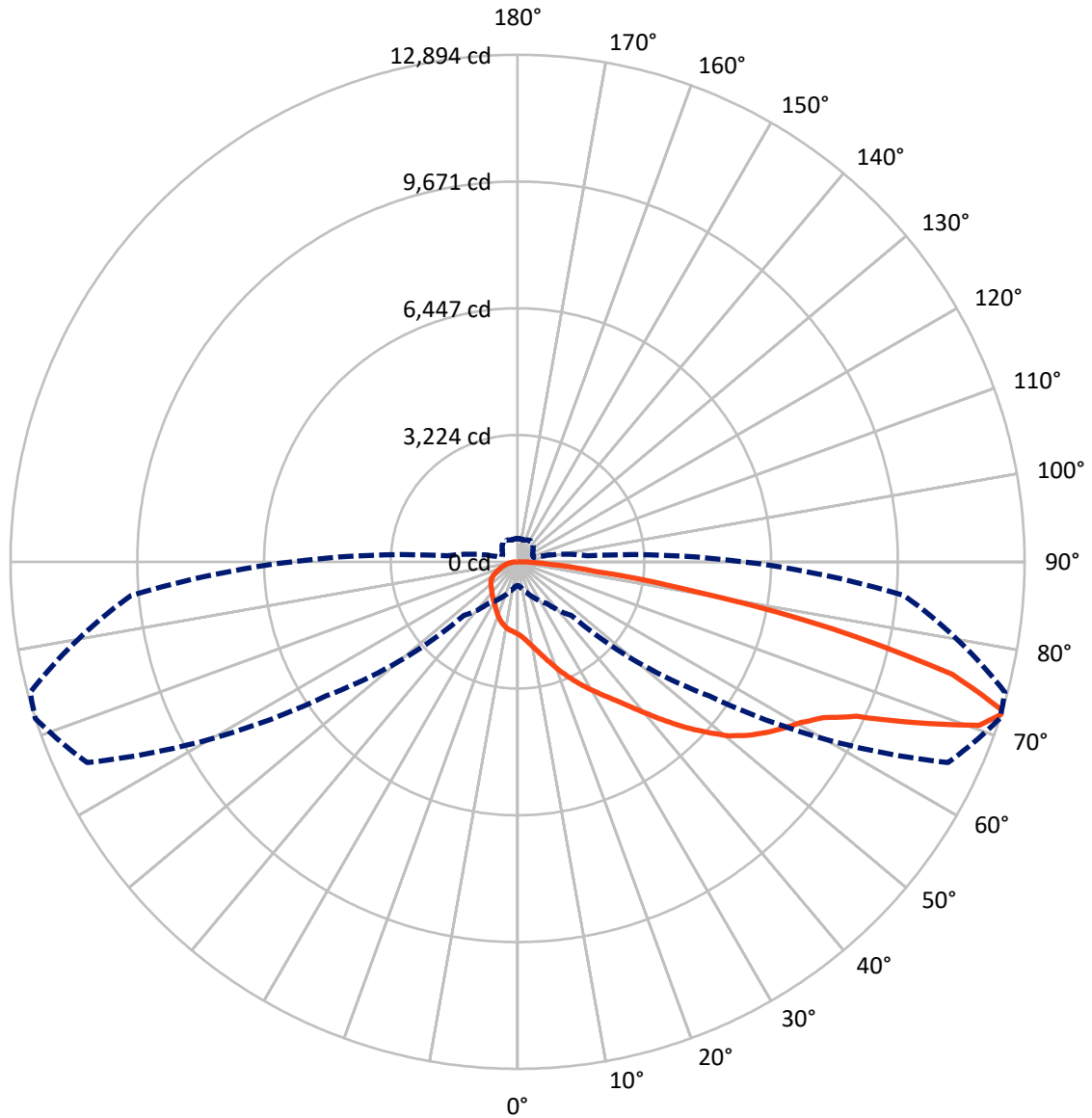
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P387067
CATALOG NUMBER: GAW-SA2D-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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 CATALOG NUMBER: GAW-SA2D-735-U-T2

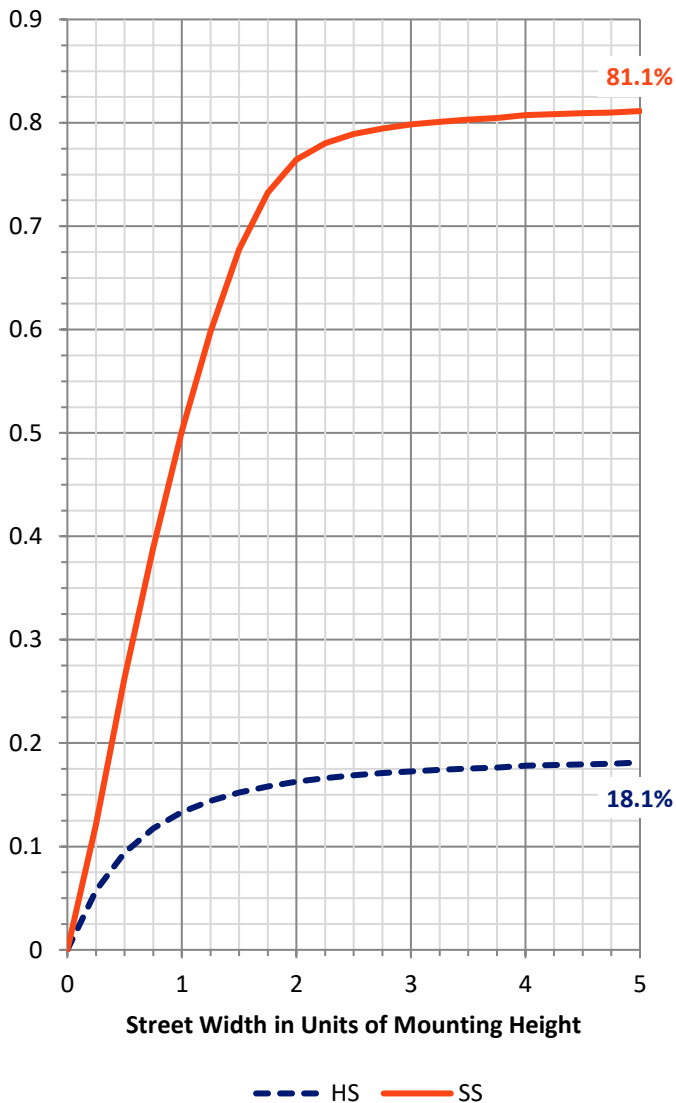
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2769.2	0.0	2769.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12158.7	0.0	12158.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	14927.9	0.0	14927.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	1.2
10°-20°	594.7	4.0
20°-30°	1042.1	7.0
30°-40°	1545.1	10.4
40°-50°	2259.8	15.1
50°-60°	3109.4	20.8
60°-70°	3461.7	23.2
70°-80°	2345.7	15.7
80°-90°	385.5	2.6
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°	14927.9	100.0
0°-180°	14927.9	100.0

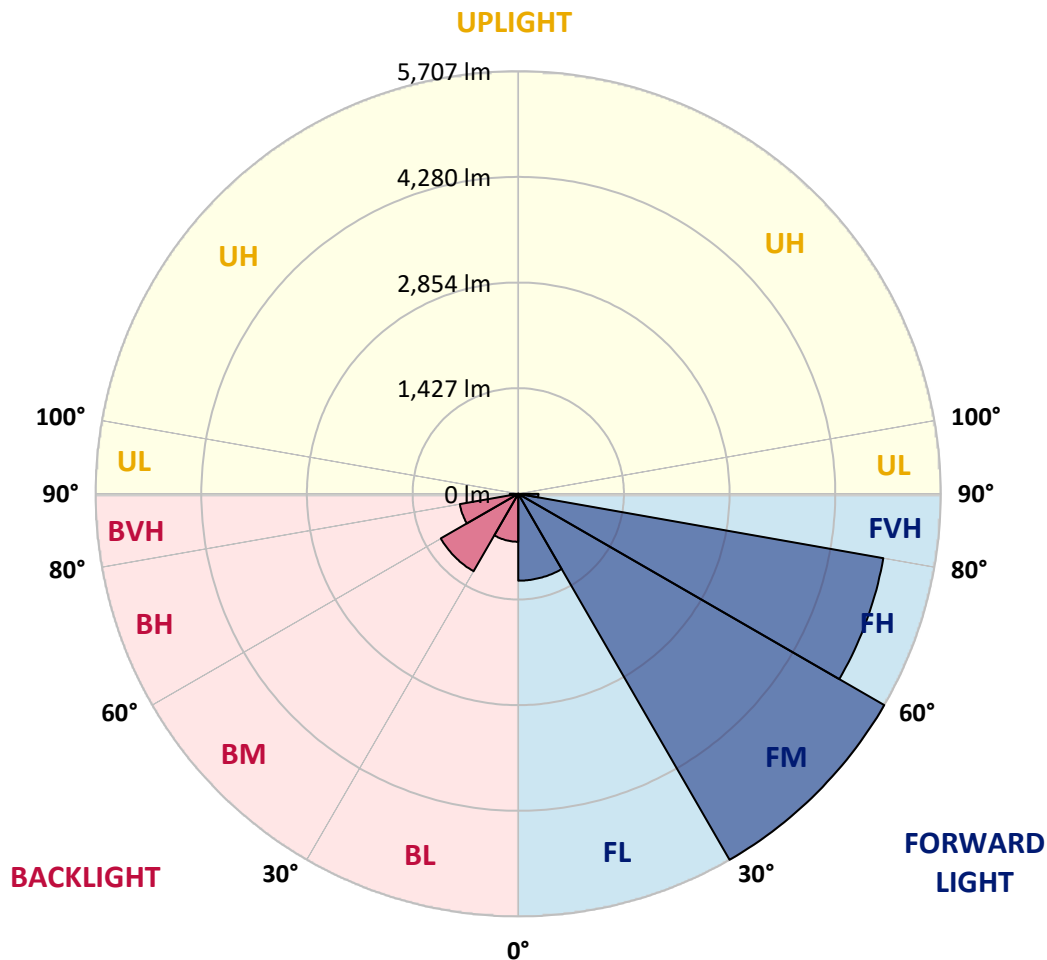


REPORT NUMBER: P387067
 CATALOG NUMBER: GAW-SA2D-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.4	7.9			
FM (30°-60°)	5707.1	38.2			
FH (60°-80°)	5006.2	33.5			G3/7500
FVH (80°-90°)	271.9	1.8			G3/500
BL (0°-30°)	647.3	4.3	B2/1000		
BM (30°-60°)	1207.1	8.1	B2/2500		
BH (60°-80°)	801.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	113.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





REPORT NUMBER: P387067

CATALOG NUMBER: GAW-SA2D-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5
2.5°	2028.7	2025.7	2014.9	2014.9	1994.3	1976.9	1944.0	1921.8	1895.6	1886.4	1855.6
5°	2225.1	2226.2	2212.7	2203.5	2173.2	2136.2	2080.2	2029.3	1978.4	1957.8	1894.6
7.5°	2390.1	2388.0	2384.5	2376.8	2348.5	2310.4	2234.9	2159.3	2084.2	2053.4	1944.5
10°	2496.0	2500.6	2503.7	2507.3	2495.5	2468.3	2396.8	2304.8	2206.6	2164.5	2004.1
12.5°	2549.4	2557.7	2572.1	2596.8	2616.3	2613.2	2561.3	2463.6	2346.9	2294.0	2078.6
15°	2580.8	2591.6	2614.2	2658.4	2713.4	2744.7	2730.9	2642.5	2512.4	2447.1	2169.6
17.5°	2600.3	2609.1	2644.0	2703.1	2784.8	2868.2	2904.6	2830.6	2699.5	2625.0	2273.9
20°	2613.7	2620.3	2664.0	2733.4	2839.3	2972.0	3073.7	3055.2	2905.6	2809.0	2382.9
22.5°	2643.5	2649.2	2690.8	2760.7	2877.9	3049.1	3236.7	3264.4	3123.1	3013.6	2499.5
25°	2726.8	2726.8	2761.7	2810.6	2920.6	3115.9	3374.4	3497.3	3345.1	3217.6	2607.5
27.5°	2885.6	2884.0	2896.9	2913.9	2997.1	3183.7	3497.3	3702.9	3575.4	3436.1	2712.4
30°	3073.7	3084.0	3085.5	3077.4	3116.3	3268.5	3610.8	3919.8	3807.2	3657.2	2819.8
32.5°	3315.8	3322.5	3314.7	3287.5	3281.9	3388.8	3722.3	4147.0	4058.0	3887.9	2917.9
35°	3623.1	3610.4	3586.1	3530.7	3477.7	3549.7	3849.8	4374.1	4339.7	4167.0	3053.1
37.5°	3952.7	3953.2	3923.4	3797.4	3724.4	3755.3	4025.7	4631.7	4680.5	4499.0	3226.3
40°	4216.8	4230.7	4249.3	4083.7	3989.1	4031.8	4249.3	4930.3	5083.4	4892.7	3452.0
42.5°	4401.3	4417.3	4469.7	4365.9	4267.8	4346.9	4512.4	5249.0	5535.8	5347.1	3716.2
45°	4596.7	4605.5	4642.5	4597.8	4535.0	4713.4	4808.9	5579.0	6014.3	5831.3	4011.8
47.5°	4802.3	4811.6	4849.6	4819.7	4786.9	5055.7	5118.4	5889.9	6472.8	6363.4	4327.4
50°	5056.2	5062.4	5098.4	5044.4	5054.7	5313.8	5394.9	6175.2	6953.4	6841.3	4644.0
52.5°	5402.6	5404.2	5454.0	5405.2	5356.9	5502.9	5632.9	6444.1	7330.2	7277.2	4960.7
55°	5674.0	5690.5	5853.9	5843.7	5815.9	5674.6	5831.9	6699.9	7666.3	7691.5	5296.8
57.5°	5500.8	5565.1	5896.1	6129.5	6356.6	6101.7	6100.7	6988.3	7978.8	8098.0	5666.3
60°	4817.7	4905.1	5392.9	5910.5	6621.3	6844.9	6658.9	7340.4	8294.4	8501.0	6129.5
62.5°	3440.7	3584.6	4245.7	5072.2	6258.4	7337.3	7794.8	7899.2	8723.6	8967.7	6731.3
65°	1739.4	1848.4	2402.4	3398.1	5000.2	7015.6	9029.5	9122.5	9469.5	9686.4	7658.1
67.5°	1056.8	1097.9	1368.2	1890.0	3065.5	5464.8	9432.5	11161.5	10912.8	11027.8	8979.6
70°	778.7	809.0	977.6	1255.2	1763.1	3206.8	8195.7	12616.6	12453.2	12440.3	9956.2
72°	606.6	628.6	777.7	1014.1	1289.1	1923.9	5940.3	12079.5	12894.2	12829.4	9866.7
72.5°	575.2	594.7	730.4	954.5	1218.2	1744.0	5341.0	11717.2	12862.4	12833.1	9751.1
75°	452.8	466.7	540.7	738.1	953.5	989.5	2926.7	9080.4	11410.3	11884.7	8770.4
77.5°	374.7	376.8	415.9	537.1	743.2	699.6	1437.6	6300.1	8170.6	8692.2	6212.7
80°	305.3	307.8	326.3	376.8	562.3	517.6	682.6	3622.7	4574.6	4580.3	2954.5
82.5°	243.1	243.7	264.2	275.5	404.0	370.1	391.2	1700.9	1998.9	1922.8	1061.9
85°	171.2	167.6	258.1	226.2	264.2	237.5	215.9	673.4	826.5	790.5	332.5
87.5°	57.0	59.1	114.6	146.5	154.2	134.7	96.1	258.1	312.0	309.4	105.4
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: P387067
 CATALOG NUMBER: GAW-SA2D-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5
2.5°	1845.8	1829.3	1805.1	1778.5	1757.3	1735.8	1719.8	1711.6	1702.4	1694.7	1703.9
5°	1865.3	1834.4	1783.1	1732.7	1695.7	1662.8	1639.1	1626.8	1615.5	1607.8	1608.8
7.5°	1897.2	1847.3	1761.0	1687.4	1636.0	1600.6	1576.4	1568.2	1561.0	1558.9	1561.6
10°	1931.1	1857.6	1731.7	1634.0	1575.4	1546.1	1535.3	1541.0	1546.1	1550.8	1555.9
12.5°	1969.6	1866.9	1689.0	1571.3	1521.4	1510.2	1521.0	1545.6	1563.6	1574.4	1581.1
15°	2020.0	1875.0	1639.6	1508.6	1475.2	1488.0	1524.5	1567.2	1598.6	1618.6	1621.7
17.5°	2066.3	1874.6	1576.4	1445.4	1437.6	1475.2	1530.2	1590.3	1632.5	1660.8	1666.4
20°	2114.1	1860.7	1502.9	1383.7	1399.6	1461.3	1532.7	1605.2	1656.2	1689.0	1696.7
22.5°	2158.8	1836.5	1422.2	1327.6	1367.8	1442.8	1522.9	1596.5	1647.4	1674.1	1682.4
25°	2189.2	1794.3	1340.5	1280.4	1339.5	1420.2	1491.1	1550.2	1588.2	1601.7	1603.6
27.5°	2204.6	1739.4	1263.4	1239.2	1310.2	1383.2	1432.0	1461.3	1472.1	1471.1	1469.0
30°	2206.6	1666.9	1197.1	1205.8	1276.3	1328.7	1351.8	1346.2	1332.2	1308.7	1310.7
32.5°	2200.0	1585.1	1141.6	1174.0	1233.0	1262.4	1263.4	1236.1	1199.1	1161.7	1151.3
35°	2201.9	1505.0	1092.8	1138.0	1180.6	1193.5	1181.7	1141.6	1091.2	1042.9	1032.6
37.5°	2224.6	1435.1	1050.6	1096.4	1122.6	1125.7	1108.7	1066.6	1029.6	982.2	978.1
40°	2278.6	1385.2	1010.5	1049.6	1064.5	1066.0	1041.9	1012.1	1015.1	989.9	989.5
42.5°	2375.7	1363.6	975.1	1000.7	1010.0	1013.1	994.6	975.6	1002.3	985.9	980.2
45°	2501.1	1368.8	945.2	952.9	969.9	984.3	973.0	949.9	960.2	888.7	865.1
47.5°	2646.1	1401.7	921.6	911.9	941.2	968.4	950.9	915.9	879.5	808.5	795.2
50°	2815.6	1452.6	900.0	871.2	909.8	946.8	929.3	879.5	824.4	790.0	785.4
52.5°	2992.5	1514.8	878.4	826.5	870.2	930.4	921.6	871.2	803.4	769.5	763.3
55°	3193.0	1577.4	851.2	774.6	827.5	922.7	918.0	841.4	787.5	768.4	763.8
57.5°	3442.2	1648.9	815.2	720.6	787.5	894.9	880.5	823.5	771.0	756.6	755.1
60°	3767.1	1754.3	763.3	663.0	738.6	852.2	849.1	797.2	744.8	734.5	732.4
62.5°	4254.4	1928.5	691.9	605.5	684.2	779.7	808.0	761.8	717.0	716.5	717.5
65°	5010.0	2190.7	614.3	555.1	629.1	718.5	760.3	725.2	688.8	699.0	700.6
67.5°	5885.8	2408.1	538.2	505.8	573.1	660.5	717.0	688.8	651.3	678.0	678.5
70°	6177.3	2213.8	471.3	456.9	515.1	604.5	670.3	648.7	610.6	637.4	634.7
72°	5748.6	1787.2	428.2	419.9	471.3	558.2	628.6	611.2	573.6	591.6	585.0
72.5°	5613.3	1703.9	417.4	410.7	459.6	546.4	617.8	601.9	564.4	579.8	573.6
75°	5007.3	1479.8	358.8	360.4	400.9	488.9	557.2	552.1	513.5	515.1	513.0
77.5°	3631.9	1085.1	302.2	312.5	341.3	429.7	496.0	492.9	450.8	443.1	441.5
80°	1685.4	553.6	246.2	250.8	280.7	359.3	423.0	418.9	385.0	375.2	369.6
82.5°	577.3	263.1	185.1	188.2	217.4	289.4	367.0	364.4	336.1	317.1	305.3
85°	206.1	131.0	129.5	126.4	155.2	227.7	319.7	305.9	264.2	225.2	224.1
87.5°	66.8	56.0	66.8	66.3	90.5	154.2	232.3	197.9	191.7	159.3	156.2
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)