

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: P386843

Luminaire Tested: GAW-SA2C-735-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386843
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-SA2C-735-U-T2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13607.1 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

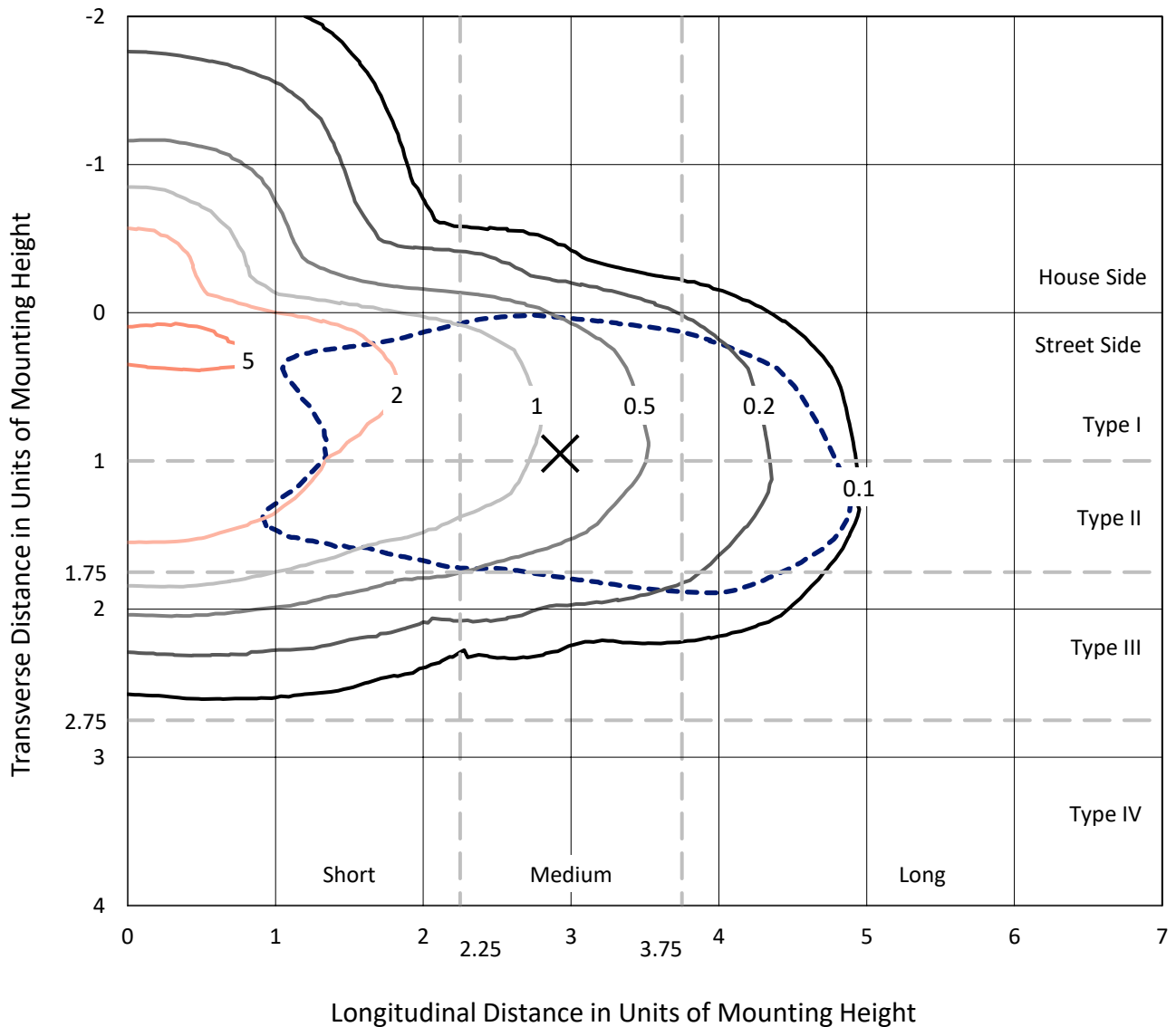
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

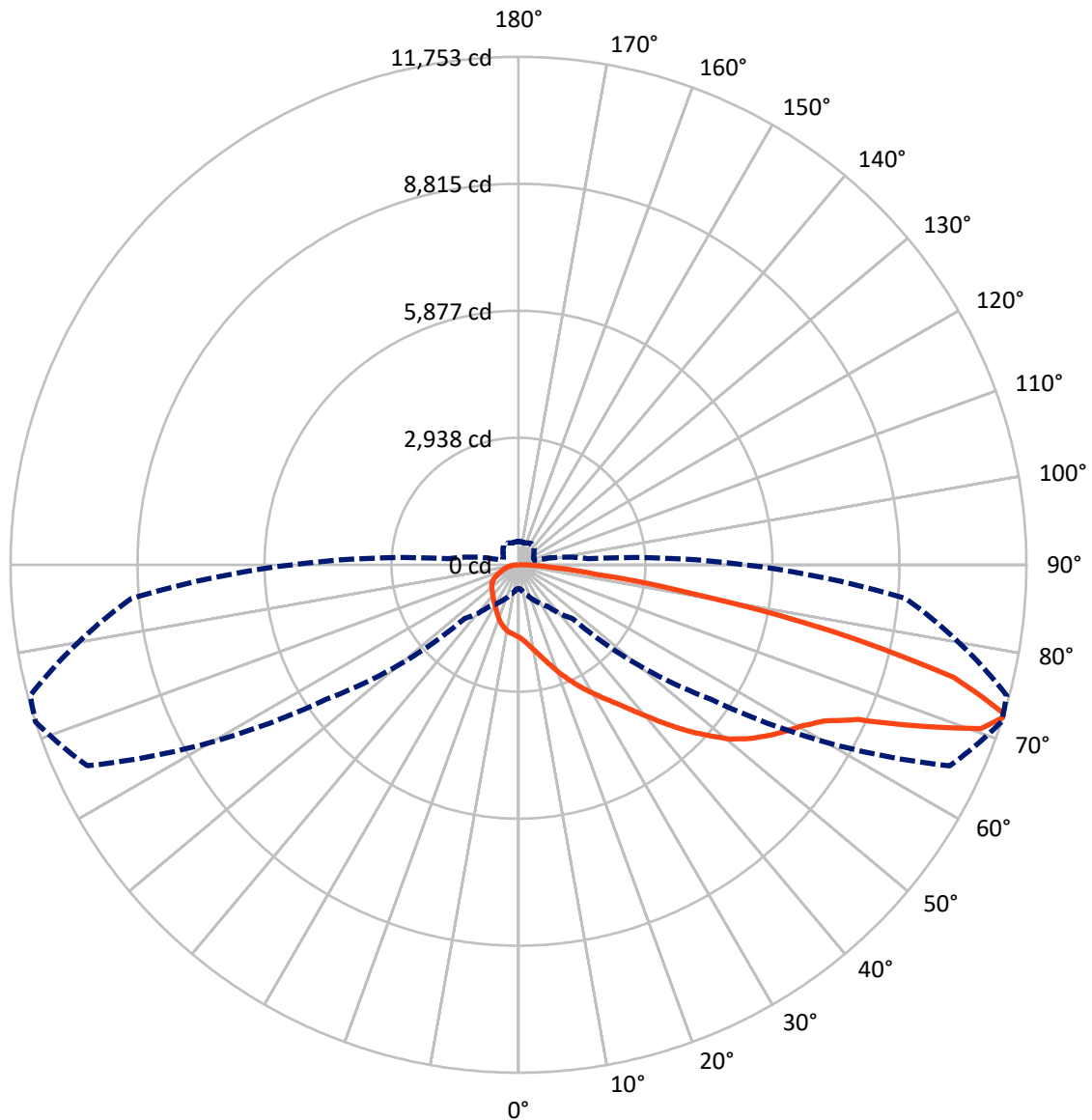
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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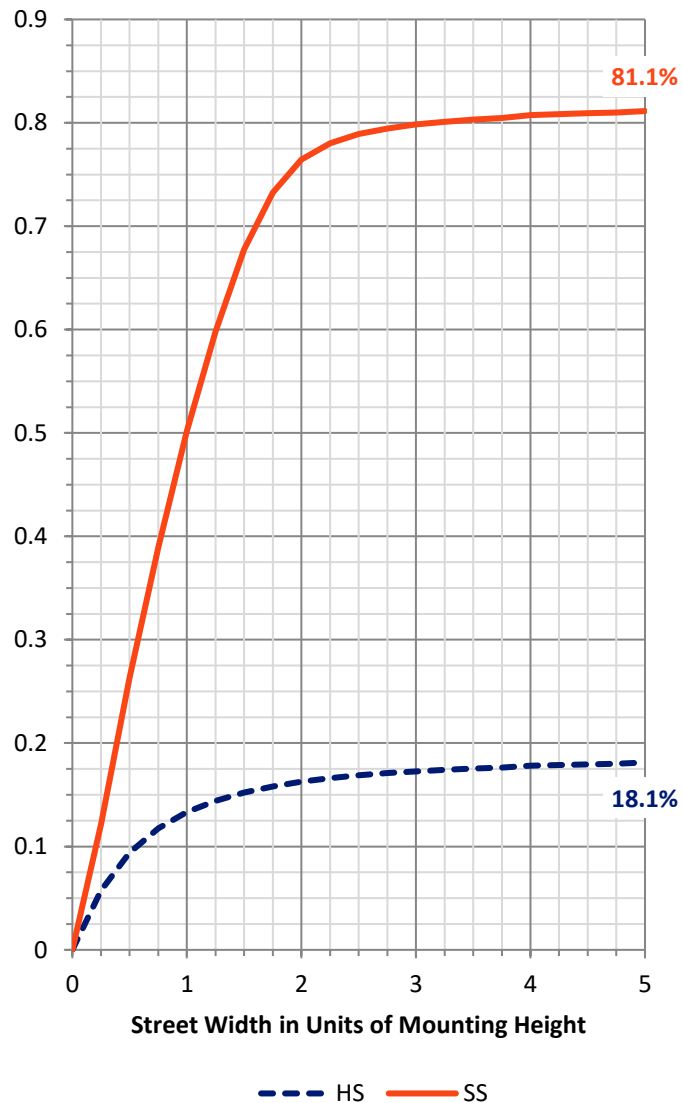
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2524.2	0.0	2524.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11082.9	0.0	11082.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	13607.1	0.0	13607.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	1.2
10°-20°	542.1	4.0
20°-30°	949.9	7.0
30°-40°	1408.4	10.4
40°-50°	2059.8	15.1
50°-60°	2834.3	20.8
60°-70°	3155.4	23.2
70°-80°	2138.1	15.7
80°-90°	351.4	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°	13607.1	100.0
0°-180°	13607.1	100.0

Coefficient of Utilization

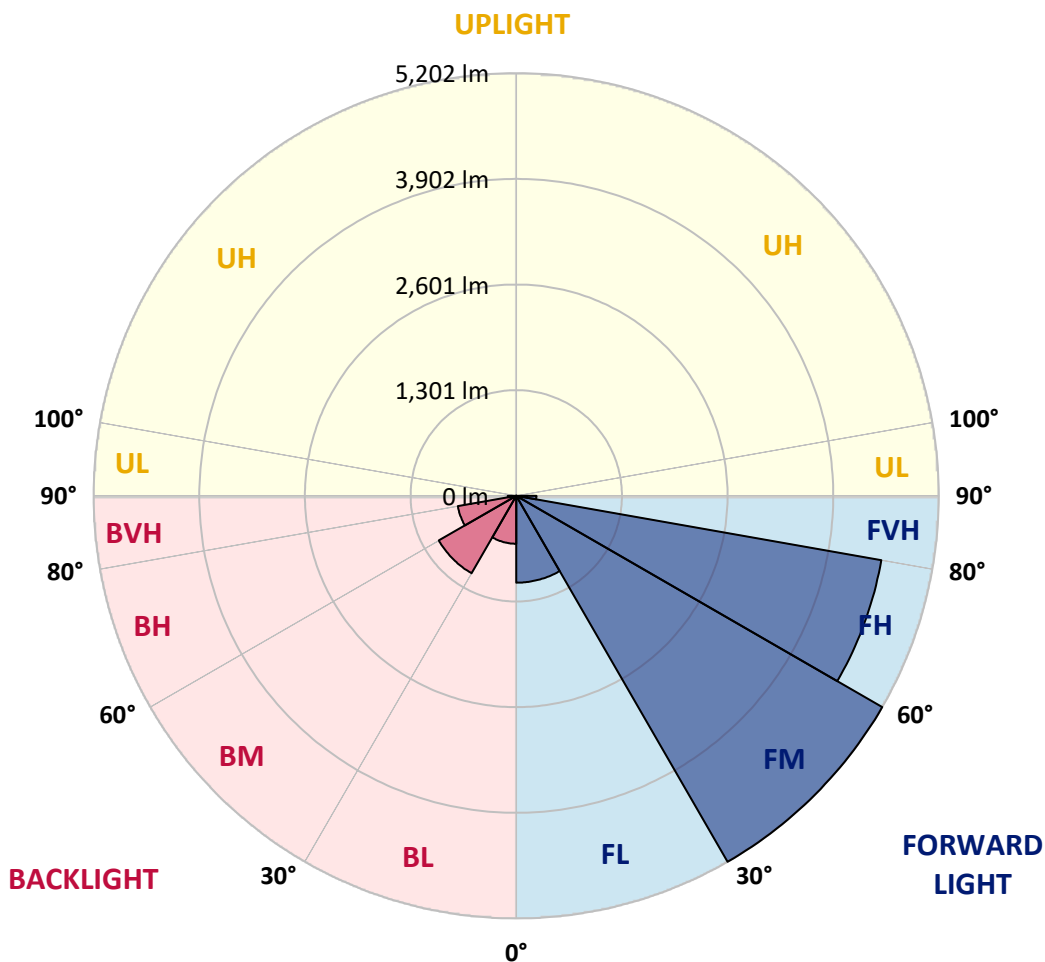


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.6	7.9			
FM (30°-60°)	5202.2	38.2			
FH (60°-80°)	4563.3	33.5			G2/5000
FVH (80°-90°)	247.9	1.8			G3/500
BL (0°-30°)	590.1	4.3	B2/1000		
BM (30°-60°)	1100.3	8.1	B2/2500		
BH (60°-80°)	730.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	103.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0
2.5°	1849.3	1846.5	1836.6	1836.6	1817.8	1801.9	1772.0	1751.8	1727.9	1719.5	1691.4
5°	2028.2	2029.2	2017.0	2008.5	1980.9	1947.2	1896.1	1849.8	1803.4	1784.6	1727.0
7.5°	2178.6	2176.8	2173.5	2166.4	2140.7	2106.0	2037.2	1968.2	1899.8	1871.7	1772.4
10°	2275.1	2279.3	2282.2	2285.5	2274.6	2249.8	2184.7	2100.9	2011.3	1972.9	1826.7
12.5°	2323.9	2331.4	2344.4	2367.0	2384.7	2381.9	2334.7	2245.6	2139.3	2091.0	1894.7
15°	2352.4	2362.3	2382.9	2423.2	2473.3	2501.9	2489.3	2408.7	2290.1	2230.6	1977.6
17.5°	2370.3	2378.3	2410.1	2463.9	2538.4	2614.3	2647.6	2580.1	2460.6	2392.7	2072.8
20°	2382.4	2388.5	2428.3	2491.6	2588.1	2709.0	2801.7	2784.9	2648.5	2560.5	2172.1
22.5°	2409.6	2414.8	2452.8	2516.4	2623.3	2779.3	2950.3	2975.6	2846.7	2747.0	2278.4
25°	2485.5	2485.5	2517.4	2561.9	2662.1	2840.2	3075.9	3187.8	3049.2	2933.0	2376.9
27.5°	2630.3	2628.9	2640.6	2656.0	2731.9	2902.1	3187.8	3375.2	3259.0	3132.0	2472.4
30°	2801.7	2811.1	2812.5	2805.0	2840.6	2979.3	3291.4	3573.0	3470.3	3333.5	2570.3
32.5°	3022.4	3028.5	3021.5	2996.7	2991.5	3089.0	3393.0	3780.0	3699.0	3543.9	2659.8
35°	3302.6	3290.9	3268.9	3218.3	3170.0	3235.6	3509.2	3987.2	3955.7	3798.3	2783.0
37.5°	3603.0	3603.4	3576.3	3461.5	3394.9	3423.1	3669.5	4221.8	4266.4	4101.0	2941.0
40°	3843.7	3856.4	3873.3	3722.4	3636.2	3675.1	3873.3	4494.1	4633.7	4459.9	3146.6
42.5°	4012.0	4026.5	4074.2	3979.6	3890.1	3962.3	4113.1	4784.5	5046.0	4874.0	3387.5
45°	4190.0	4198.0	4231.7	4190.9	4133.8	4296.3	4383.5	5085.3	5482.2	5315.4	3656.8
47.5°	4377.4	4385.8	4420.5	4393.4	4363.4	4608.4	4665.6	5368.8	5900.1	5800.3	3944.5
50°	4608.9	4614.5	4647.3	4598.1	4607.4	4843.6	4917.6	5628.8	6338.2	6236.1	4233.1
52.5°	4924.7	4926.1	4971.5	4927.0	4883.0	5016.0	5134.5	5873.8	6681.6	6633.3	4521.7
55°	5172.0	5187.1	5336.0	5326.6	5301.4	5172.5	5315.8	6107.2	6988.1	7011.0	4828.1
57.5°	5014.1	5072.7	5374.5	5587.1	5794.2	5561.9	5560.9	6370.0	7272.9	7381.6	5165.0
60°	4391.5	4471.1	4915.8	5387.5	6035.5	6239.4	6069.7	6690.9	7560.5	7748.9	5587.1
62.5°	3136.3	3267.5	3870.0	4623.4	5704.8	6688.2	7105.1	7200.3	7951.8	8174.3	6135.7
65°	1585.5	1684.8	2189.9	3097.4	4557.8	6394.8	8230.5	8315.3	8631.6	8829.3	6980.5
67.5°	963.3	1000.7	1247.2	1722.8	2794.2	4981.3	8597.9	10174.0	9947.2	10052.2	8185.1
70°	709.8	737.4	891.1	1144.1	1607.0	2923.1	7470.6	11500.3	11351.4	11339.6	9075.3
72°	552.8	573.0	708.9	924.4	1175.1	1753.7	5414.8	11010.7	11753.3	11694.3	8993.8
72.5°	524.3	542.1	665.7	870.1	1110.4	1589.7	4868.4	10680.4	11724.3	11697.6	8888.4
75°	412.8	425.5	492.9	672.8	869.1	901.9	2667.8	8276.9	10400.7	10833.2	7994.4
77.5°	341.6	343.4	379.0	489.6	677.5	637.7	1310.5	5742.7	7447.6	7923.2	5663.0
80°	278.3	280.7	297.5	343.4	512.5	471.8	622.2	3302.2	4169.9	4175.0	2693.1
82.5°	221.6	222.1	240.9	251.1	368.2	337.3	356.5	1550.4	1822.0	1752.7	968.0
85°	156.0	152.7	235.2	206.1	240.9	216.4	196.8	613.8	753.4	720.6	303.1
87.5°	52.0	53.9	104.5	133.5	140.5	122.8	87.6	235.2	284.4	282.0	96.0
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°	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0	1674.0
2.5°	1682.5	1667.5	1645.4	1621.1	1601.9	1582.2	1567.7	1560.1	1551.8	1544.7	1553.2
5°	1700.3	1672.1	1625.3	1579.4	1545.7	1515.7	1494.1	1482.8	1472.6	1465.5	1466.5
7.5°	1729.3	1683.9	1605.1	1538.2	1491.3	1459.0	1437.0	1429.5	1422.9	1421.0	1423.4
10°	1760.2	1693.3	1578.5	1489.4	1436.1	1409.3	1399.5	1404.7	1409.3	1413.5	1418.2
12.5°	1795.4	1701.7	1539.6	1432.3	1386.8	1376.5	1386.4	1408.8	1425.2	1435.1	1441.2
15°	1841.3	1709.1	1494.6	1375.1	1344.6	1356.4	1389.6	1428.5	1457.1	1475.4	1478.2
17.5°	1883.5	1708.7	1437.0	1317.5	1310.5	1344.6	1394.8	1449.6	1488.0	1513.8	1518.9
20°	1927.1	1696.1	1369.9	1261.2	1275.8	1332.0	1397.2	1463.2	1509.6	1539.6	1546.6
22.5°	1967.7	1674.0	1296.4	1210.2	1246.8	1315.2	1388.2	1455.2	1501.6	1526.0	1533.5
25°	1995.5	1635.6	1221.9	1167.1	1220.9	1294.5	1359.2	1413.0	1447.7	1459.9	1461.8
27.5°	2009.5	1585.5	1151.6	1129.6	1194.3	1260.8	1305.3	1332.0	1341.8	1340.9	1339.0
30°	2011.3	1519.4	1091.2	1099.2	1163.3	1211.2	1232.2	1227.0	1214.4	1192.8	1194.7
32.5°	2005.2	1444.9	1040.6	1070.1	1124.0	1150.7	1151.6	1126.8	1093.1	1058.9	1049.5
35°	2007.1	1371.8	996.0	1037.3	1076.2	1087.9	1077.1	1040.6	994.6	950.7	941.3
37.5°	2027.8	1308.1	957.6	999.3	1023.3	1026.1	1010.6	972.2	938.5	895.3	891.6
40°	2077.0	1262.6	921.1	956.7	970.3	971.7	949.7	922.5	925.3	902.4	901.9
42.5°	2165.5	1243.0	888.8	912.2	920.6	923.4	906.6	889.2	913.7	898.6	893.5
45°	2279.8	1247.7	861.6	868.7	884.1	897.2	886.9	865.8	875.2	810.0	788.5
47.5°	2412.0	1277.7	840.1	831.2	857.9	882.7	866.8	834.9	801.7	737.0	724.8
50°	2566.6	1324.1	820.4	794.2	829.3	863.0	847.1	801.7	751.5	720.1	715.9
52.5°	2727.7	1380.7	800.7	753.4	793.2	848.0	840.1	794.2	732.3	701.4	695.7
55°	2910.4	1437.9	775.8	706.0	754.3	841.0	836.8	767.0	717.8	700.4	696.2
57.5°	3137.7	1503.0	743.1	656.8	717.8	815.7	802.6	750.6	702.8	689.7	688.3
60°	3433.8	1599.0	695.7	604.4	673.3	776.8	774.0	726.7	678.9	669.5	667.6
62.5°	3878.0	1757.9	630.6	551.9	623.6	710.7	736.5	694.3	653.6	653.2	654.1
65°	4566.7	1996.9	559.9	506.0	573.5	655.0	693.0	661.1	627.8	637.2	638.6
67.5°	5365.1	2195.0	490.6	461.1	522.4	602.1	653.6	627.8	593.6	618.0	618.4
70°	5630.7	2017.9	429.7	416.5	469.4	551.0	611.0	591.3	556.6	580.9	578.7
72°	5239.9	1629.1	390.3	382.8	429.7	508.8	573.0	557.1	522.9	539.3	533.2
72.5°	5116.7	1553.2	380.5	374.3	418.9	498.1	563.2	548.6	514.4	528.5	522.9
75°	4564.3	1348.9	327.0	328.4	365.4	445.6	507.8	503.2	468.1	469.4	467.6
77.5°	3310.6	989.1	275.5	284.8	311.1	391.7	452.1	449.3	410.9	403.8	402.4
80°	1536.3	504.6	224.4	228.6	255.8	327.5	385.6	381.9	351.0	342.0	336.9
82.5°	526.2	239.9	168.6	171.4	198.2	263.8	334.5	332.2	306.4	289.1	278.3
85°	187.9	119.5	118.1	115.3	141.5	207.5	291.4	278.8	240.9	205.3	204.3
87.5°	60.9	51.1	60.9	60.4	82.5	140.5	211.7	180.4	174.7	145.2	142.4
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)