

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: P387011

Luminaire Tested: GAW-SA2D-727-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387011
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-727-U-T2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13290 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

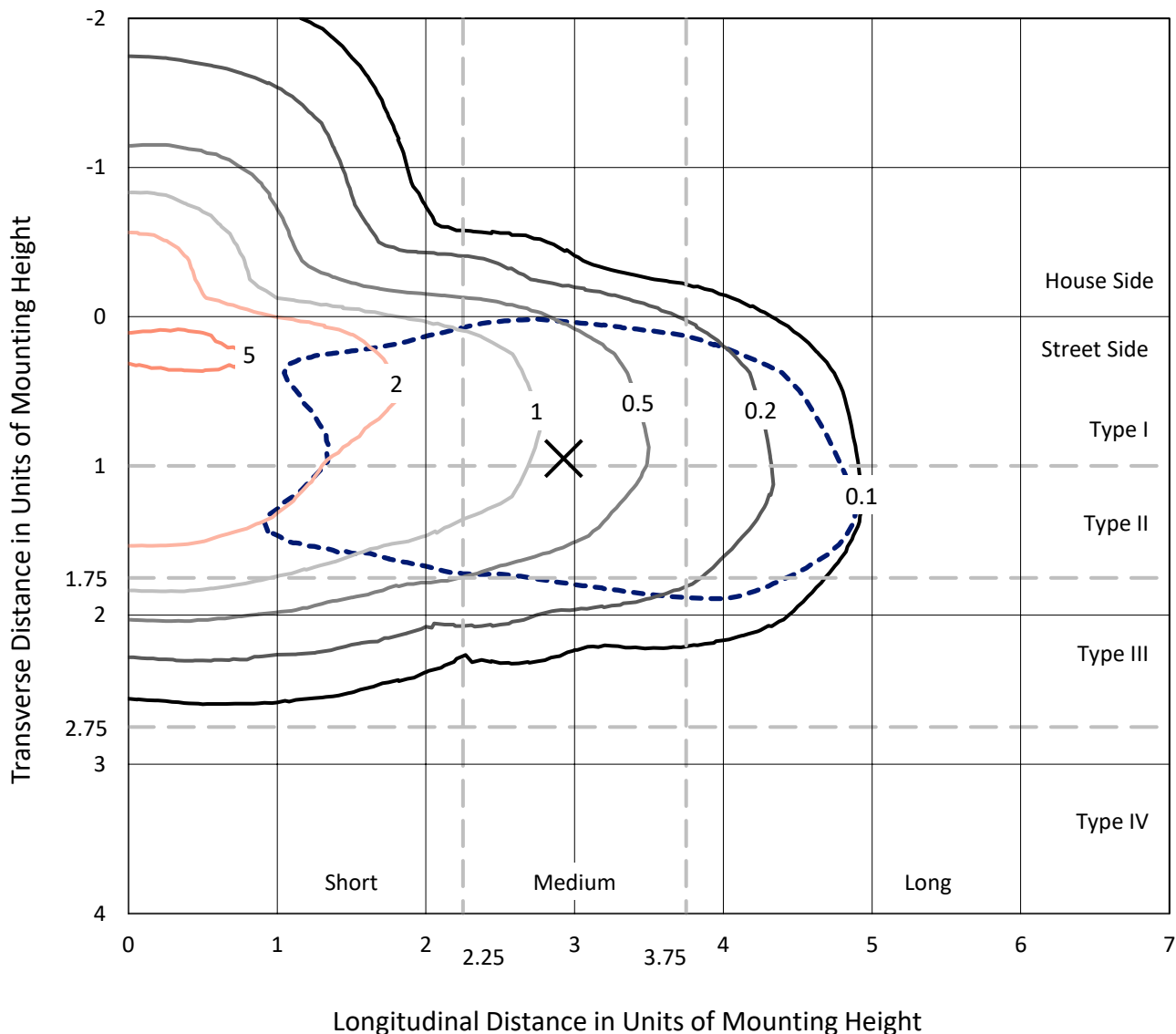
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

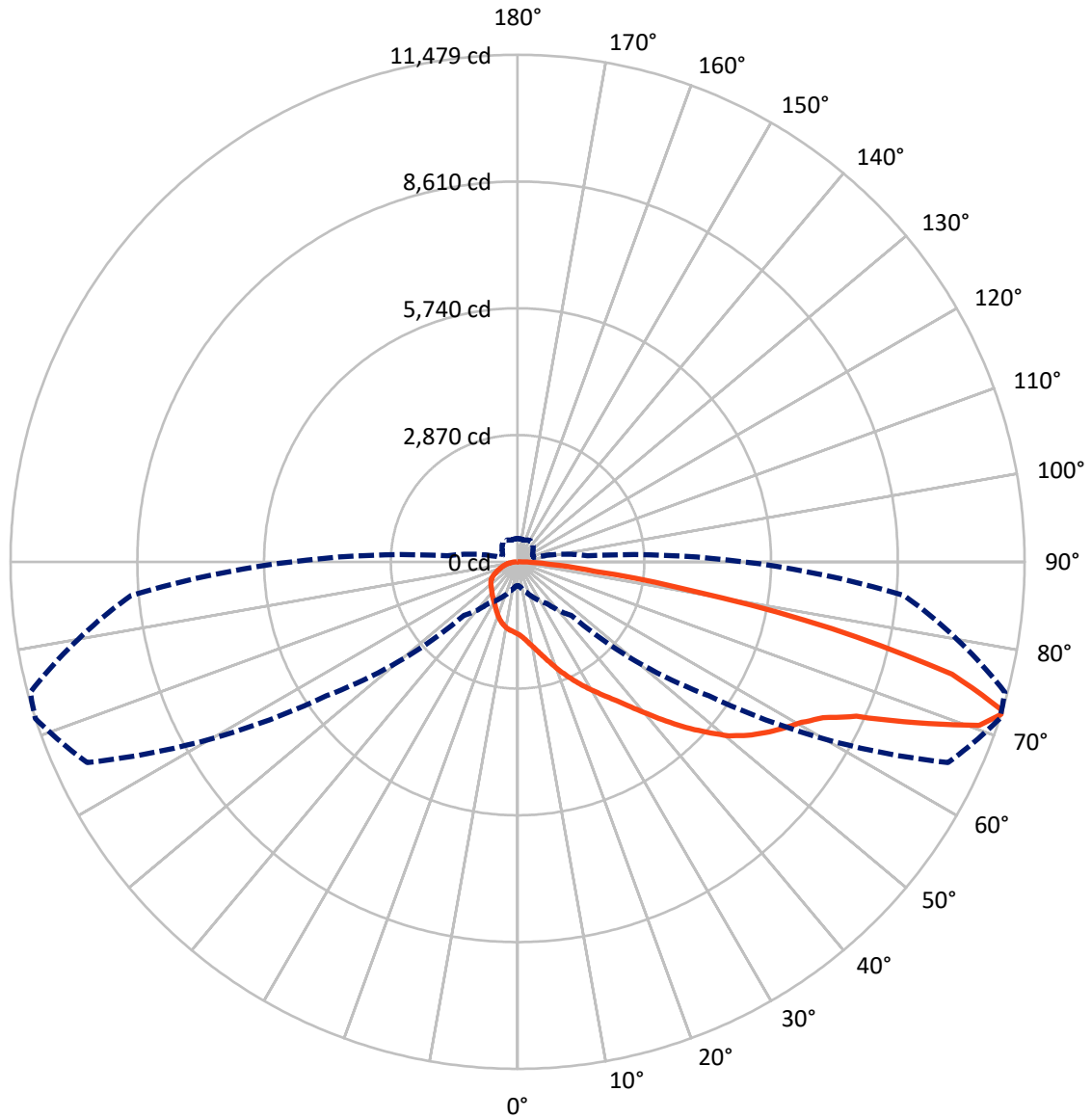
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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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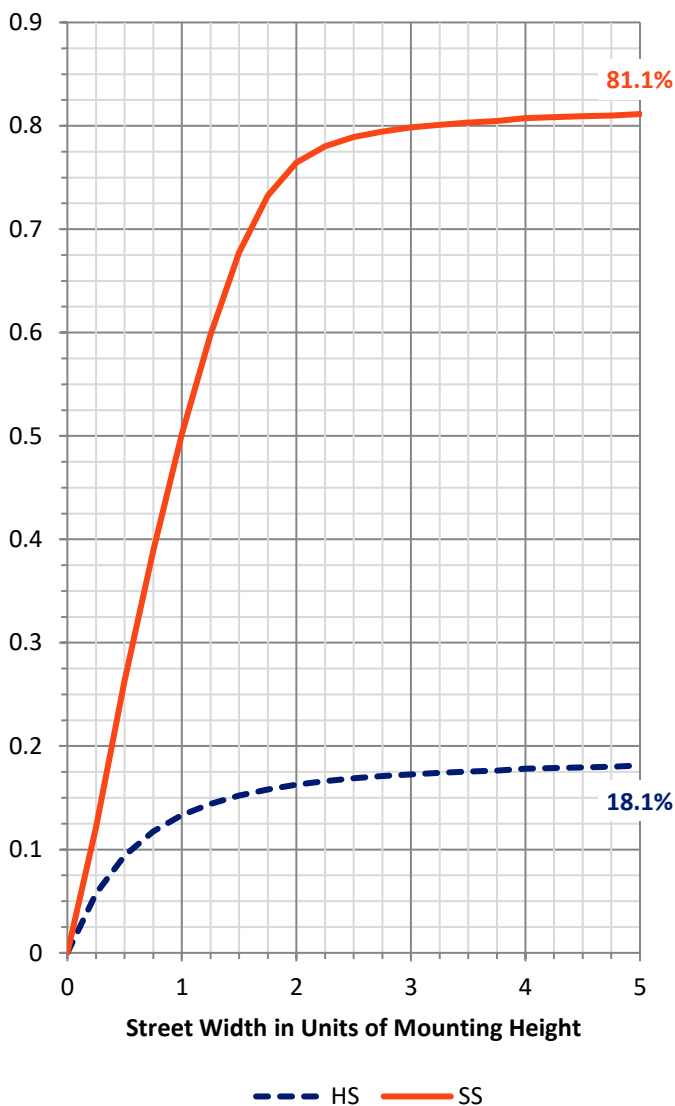
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2465.4	0.0	2465.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10824.6	0.0	10824.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	13290.0	0.0	13290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.2
10°-20°	529.4	4.0
20°-30°	927.7	7.0
30°-40°	1375.5	10.4
40°-50°	2011.8	15.1
50°-60°	2768.3	20.8
60°-70°	3081.9	23.2
70°-80°	2088.3	15.7
80°-90°	343.2	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°	13290.0	100.0
0°-180°	13290.0	100.0

Coefficient of Utilization

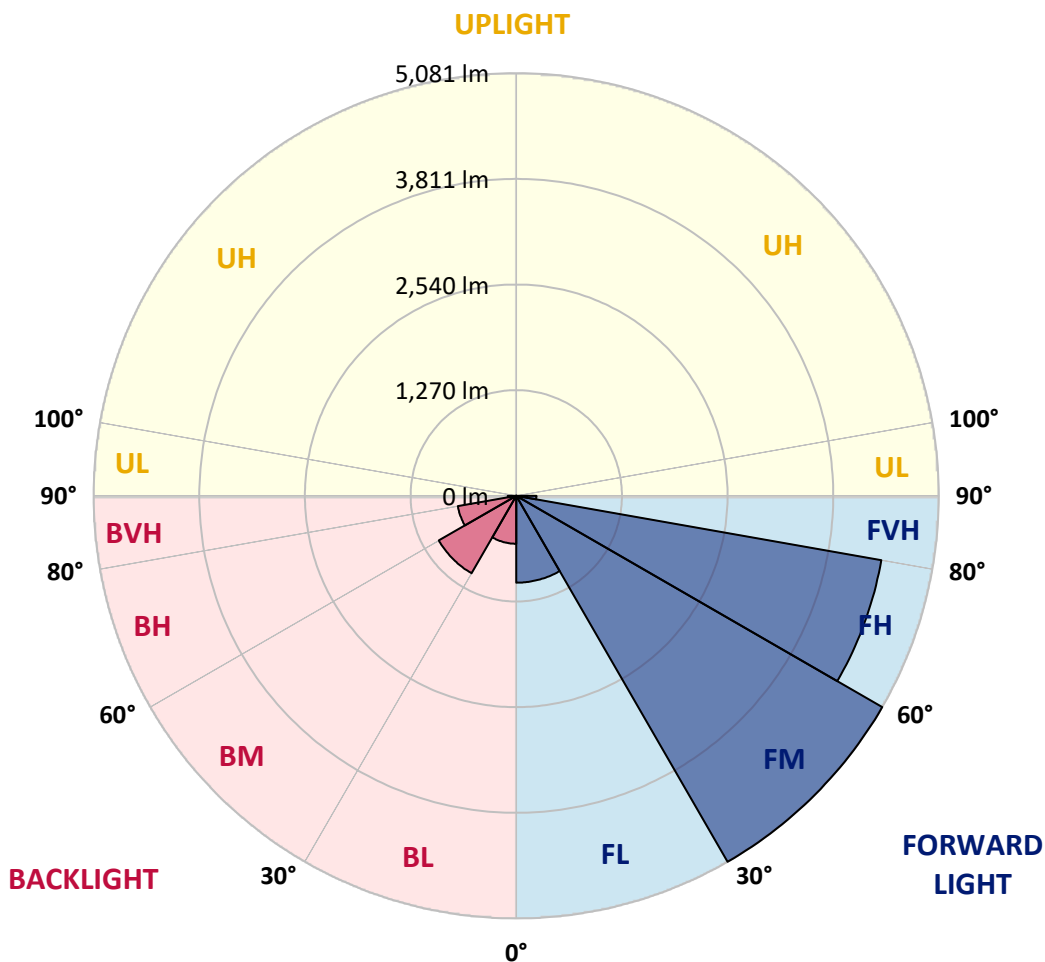


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.7	7.9			
FM (30°-60°)	5080.9	38.2			
FH (60°-80°)	4456.9	33.5			G2/5000
FVH (80°-90°)	242.1	1.8			G3/500
BL (0°-30°)	576.3	4.3	B2/1000		
BM (30°-60°)	1074.7	8.1	B2/2500		
BH (60°-80°)	713.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	101.1	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°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1806.2	1803.4	1793.8	1793.8	1775.5	1759.9	1730.7	1711.0	1687.6	1679.4	1651.9
5°	1981.0	1981.9	1970.0	1961.7	1934.7	1901.8	1851.9	1806.6	1761.3	1743.0	1686.7
7.5°	2127.9	2126.0	2122.8	2116.0	2090.8	2056.9	1989.7	1922.4	1855.6	1828.1	1731.1
10°	2222.1	2226.2	2229.0	2232.2	2221.7	2197.4	2133.8	2051.9	1964.5	1927.0	1784.2
12.5°	2269.7	2277.0	2289.8	2311.8	2329.2	2326.5	2280.2	2193.3	2089.4	2042.3	1850.5
15°	2297.6	2307.2	2327.4	2366.7	2415.7	2443.6	2431.2	2352.5	2236.8	2178.6	1931.5
17.5°	2315.0	2322.8	2353.9	2406.5	2479.3	2553.4	2585.9	2520.0	2403.3	2337.0	2024.4
20°	2326.9	2332.9	2371.8	2433.5	2527.8	2645.9	2736.5	2720.0	2586.8	2500.8	2121.4
22.5°	2353.5	2358.5	2395.6	2457.8	2562.1	2714.5	2881.5	2906.2	2780.4	2682.9	2225.3
25°	2427.6	2427.6	2458.7	2502.2	2600.1	2774.0	3004.2	3113.5	2978.1	2864.6	2321.4
27.5°	2569.0	2567.6	2579.1	2594.2	2668.3	2834.4	3113.5	3296.6	3183.1	3059.1	2414.8
30°	2736.5	2745.6	2747.0	2739.7	2774.4	2909.9	3214.7	3489.7	3389.5	3255.8	2510.4
32.5°	2952.0	2957.9	2951.1	2926.8	2921.8	3017.0	3314.0	3691.9	3612.8	3461.3	2597.8
35°	3225.6	3214.2	3192.7	3143.3	3096.1	3160.2	3427.4	3894.2	3863.5	3709.8	2718.2
37.5°	3519.0	3519.4	3492.9	3380.8	3315.8	3343.2	3583.9	4123.5	4166.9	4005.4	2872.4
40°	3754.2	3766.5	3783.0	3635.7	3551.5	3589.4	3783.0	4389.3	4525.7	4355.9	3073.3
42.5°	3918.5	3932.6	3979.3	3886.9	3799.5	3870.0	4017.3	4673.0	4928.4	4760.4	3308.5
45°	4092.3	4100.1	4133.1	4093.3	4037.4	4196.2	4281.3	4966.8	5354.4	5191.5	3571.6
47.5°	4275.4	4283.6	4317.5	4290.9	4261.7	4501.0	4556.8	5243.7	5762.6	5665.1	3852.6
50°	4501.4	4506.9	4539.0	4490.9	4500.1	4730.7	4803.0	5497.6	6190.5	6090.7	4134.4
52.5°	4809.9	4811.2	4855.6	4812.2	4769.1	4899.1	5014.9	5737.0	6525.9	6478.7	4416.3
55°	5051.5	5066.1	5211.6	5202.5	5177.8	5051.9	5192.0	5964.9	6825.2	6847.6	4715.6
57.5°	4897.3	4954.5	5249.2	5456.9	5659.2	5432.2	5431.3	6221.6	7103.4	7209.5	5044.6
60°	4289.1	4366.9	4801.2	5262.0	5894.8	6093.9	5928.3	6535.0	7384.3	7568.3	5456.9
62.5°	3063.2	3191.3	3779.8	4515.6	5571.8	6532.3	6939.6	7032.4	7766.4	7983.8	5992.8
65°	1548.5	1645.5	2138.8	3025.2	4451.6	6245.8	8038.7	8121.5	8430.4	8623.5	6817.8
67.5°	940.8	977.4	1218.1	1682.6	2729.1	4865.2	8397.5	9936.9	9715.4	9817.9	7994.3
70°	693.3	720.3	870.4	1117.5	1569.6	2855.0	7296.5	11232.3	11086.8	11075.4	8863.8
72°	540.0	559.6	692.4	902.9	1147.7	1712.8	5288.5	10754.1	11479.4	11421.8	8784.2
72.5°	512.1	529.4	650.3	849.8	1084.5	1552.6	4755.0	10431.5	11451.1	11425.0	8681.2
75°	403.1	415.5	481.4	657.1	848.9	880.9	2605.6	8084.0	10158.3	10580.7	7808.1
77.5°	333.6	335.4	370.2	478.2	661.7	622.8	1279.9	5608.8	7274.1	7738.5	5531.1
80°	271.8	274.1	290.6	335.4	500.6	460.8	607.7	3225.2	4072.7	4077.7	2630.3
82.5°	216.4	216.9	235.2	245.3	359.7	329.5	348.2	1514.2	1779.6	1711.9	945.4
85°	152.4	149.2	229.7	201.3	235.2	211.4	192.2	599.5	735.8	703.8	296.1
87.5°	50.8	52.6	102.0	130.4	137.3	119.9	85.6	229.7	277.8	275.5	93.8
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°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1643.3	1628.6	1607.1	1583.3	1564.5	1545.3	1531.1	1523.8	1515.6	1508.7	1517.0
5°	1660.6	1633.2	1587.4	1542.6	1509.6	1480.3	1459.3	1448.3	1438.2	1431.4	1432.3
7.5°	1689.0	1644.6	1567.7	1502.3	1456.6	1425.0	1403.5	1396.1	1389.7	1387.9	1390.2
10°	1719.2	1653.8	1541.7	1454.7	1402.6	1376.5	1366.9	1371.9	1376.5	1380.6	1385.2
12.5°	1753.5	1662.0	1503.7	1398.9	1354.5	1344.4	1354.0	1376.0	1392.0	1401.6	1407.6
15°	1798.4	1669.3	1459.8	1343.1	1313.3	1324.8	1357.3	1395.2	1423.1	1441.0	1443.7
17.5°	1839.6	1668.9	1403.5	1286.8	1279.9	1313.3	1362.3	1415.8	1453.3	1478.5	1483.6
20°	1882.1	1656.5	1338.0	1231.9	1246.1	1301.0	1364.6	1429.1	1474.4	1503.7	1510.5
22.5°	1921.9	1635.0	1266.2	1182.0	1217.7	1284.5	1355.9	1421.3	1466.6	1490.4	1497.7
25°	1948.9	1597.5	1193.4	1139.9	1192.5	1264.4	1327.5	1380.1	1414.0	1425.9	1427.7
27.5°	1962.7	1548.5	1124.8	1103.3	1166.4	1231.4	1274.9	1301.0	1310.6	1309.7	1307.8
30°	1964.5	1484.0	1065.8	1073.5	1136.2	1182.9	1203.5	1198.5	1186.1	1165.1	1166.9
32.5°	1958.5	1411.2	1016.3	1045.2	1097.8	1123.9	1124.8	1100.5	1067.6	1034.2	1025.0
35°	1960.4	1339.9	972.9	1013.1	1051.1	1062.6	1052.0	1016.3	971.5	928.5	919.3
37.5°	1980.5	1277.6	935.3	976.1	999.4	1002.2	987.1	949.5	916.6	874.5	870.8
40°	2028.6	1233.2	899.6	934.4	947.7	949.1	927.6	901.0	903.8	881.3	880.9
42.5°	2115.0	1214.0	868.1	891.0	899.2	901.9	885.5	868.5	892.3	877.7	872.6
45°	2226.7	1218.6	841.5	848.4	863.5	876.3	866.2	845.7	854.8	791.2	770.1
47.5°	2355.7	1247.9	820.5	811.8	837.9	862.1	846.6	815.4	783.0	719.8	707.9
50°	2506.8	1293.2	801.3	775.6	810.0	842.9	827.3	783.0	734.0	703.3	699.2
52.5°	2664.2	1348.6	782.0	735.8	774.7	828.3	820.5	775.6	715.2	685.0	679.5
55°	2842.6	1404.4	757.8	689.6	736.7	821.4	817.3	749.1	701.0	684.1	680.0
57.5°	3064.6	1468.0	725.8	641.6	701.0	796.7	783.9	733.1	686.4	673.6	672.2
60°	3353.8	1561.8	679.5	590.3	657.6	758.7	756.0	709.7	663.1	653.9	652.1
62.5°	3787.6	1716.9	615.9	539.1	609.1	694.2	719.4	678.2	638.4	637.9	638.8
65°	4460.3	1950.3	546.8	494.2	560.1	639.7	676.8	645.7	613.2	622.3	623.7
67.5°	5240.0	2143.9	479.1	450.3	510.2	588.0	638.4	613.2	579.8	603.6	604.0
70°	5499.5	1970.9	419.6	406.8	458.5	538.1	596.7	577.5	543.6	567.4	565.1
72°	5117.8	1591.1	381.2	373.9	419.6	497.0	559.6	544.1	510.7	526.7	520.8
72.5°	4997.5	1517.0	371.6	365.6	409.1	486.4	550.0	535.9	502.4	516.2	510.7
75°	4458.0	1317.4	319.4	320.8	356.9	435.2	496.0	491.5	457.1	458.5	456.7
77.5°	3233.4	966.0	269.1	278.2	303.8	382.6	441.6	438.8	401.3	394.5	393.1
80°	1500.5	492.8	219.2	223.3	249.9	319.9	376.6	372.9	342.7	334.1	329.0
82.5°	513.9	234.3	164.7	167.5	193.6	257.6	326.7	324.4	299.3	282.3	271.8
85°	183.5	116.7	115.3	112.6	138.2	202.7	284.6	272.3	235.2	200.4	199.5
87.5°	59.5	49.9	59.5	59.0	80.5	137.3	206.8	176.2	170.7	141.9	139.1
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)