

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: P387179

Luminaire Tested: GAW-SA2D-830-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387179
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-830-U-T2
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12628 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

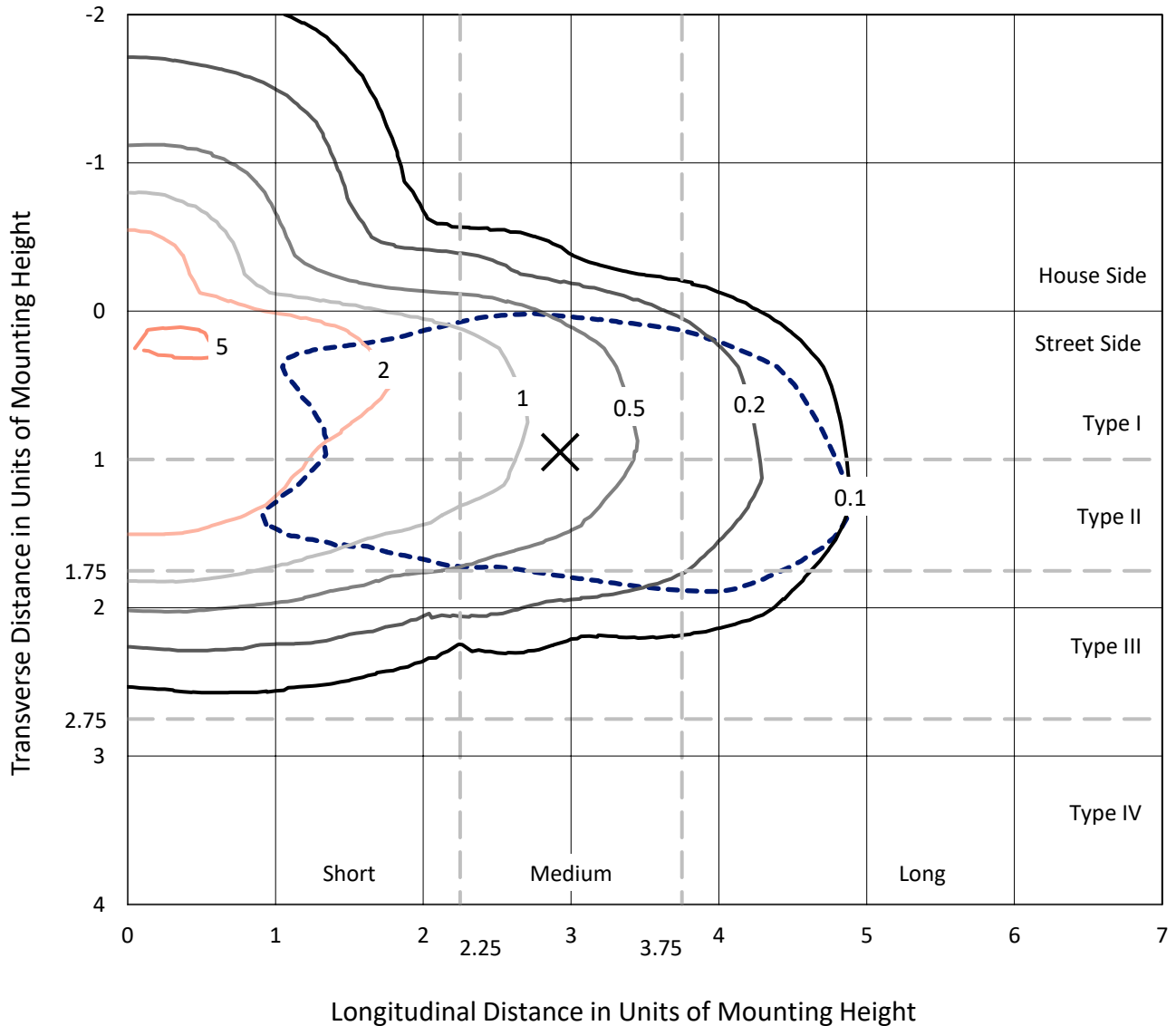
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

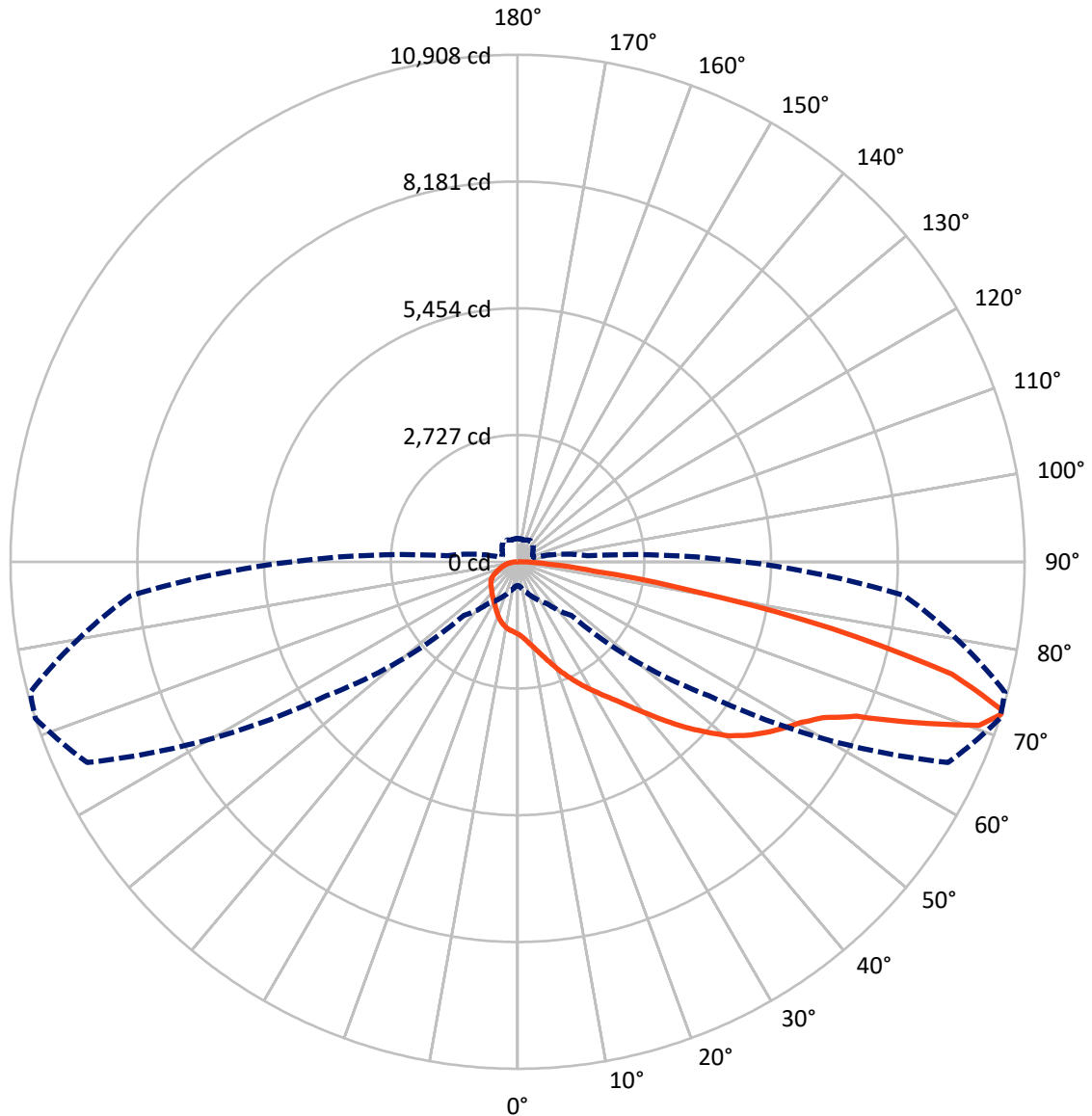
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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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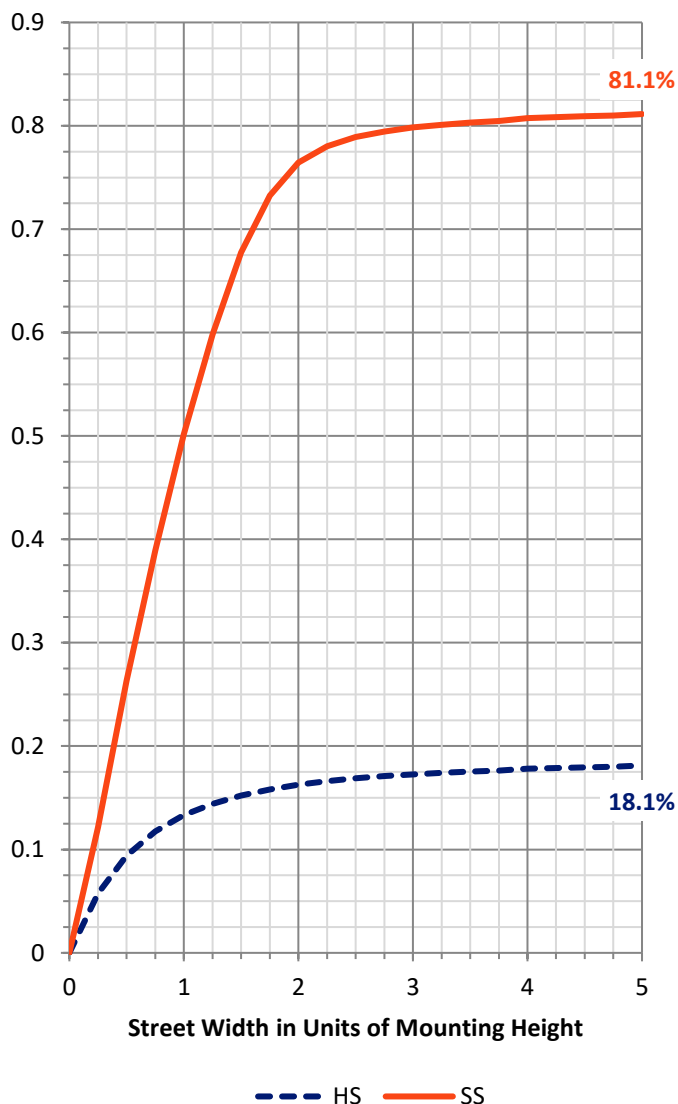
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.6	0.0	2342.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10285.4	0.0	10285.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	12628.0	0.0	12628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	1.2
10°-20°	503.1	4.0
20°-30°	881.5	7.0
30°-40°	1307.0	10.4
40°-50°	1911.6	15.1
50°-60°	2630.4	20.8
60°-70°	2928.4	23.2
70°-80°	1984.3	15.7
80°-90°	326.1	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°	12628.0	100.0
0°-180°	12628.0	100.0

Coefficient of Utilization

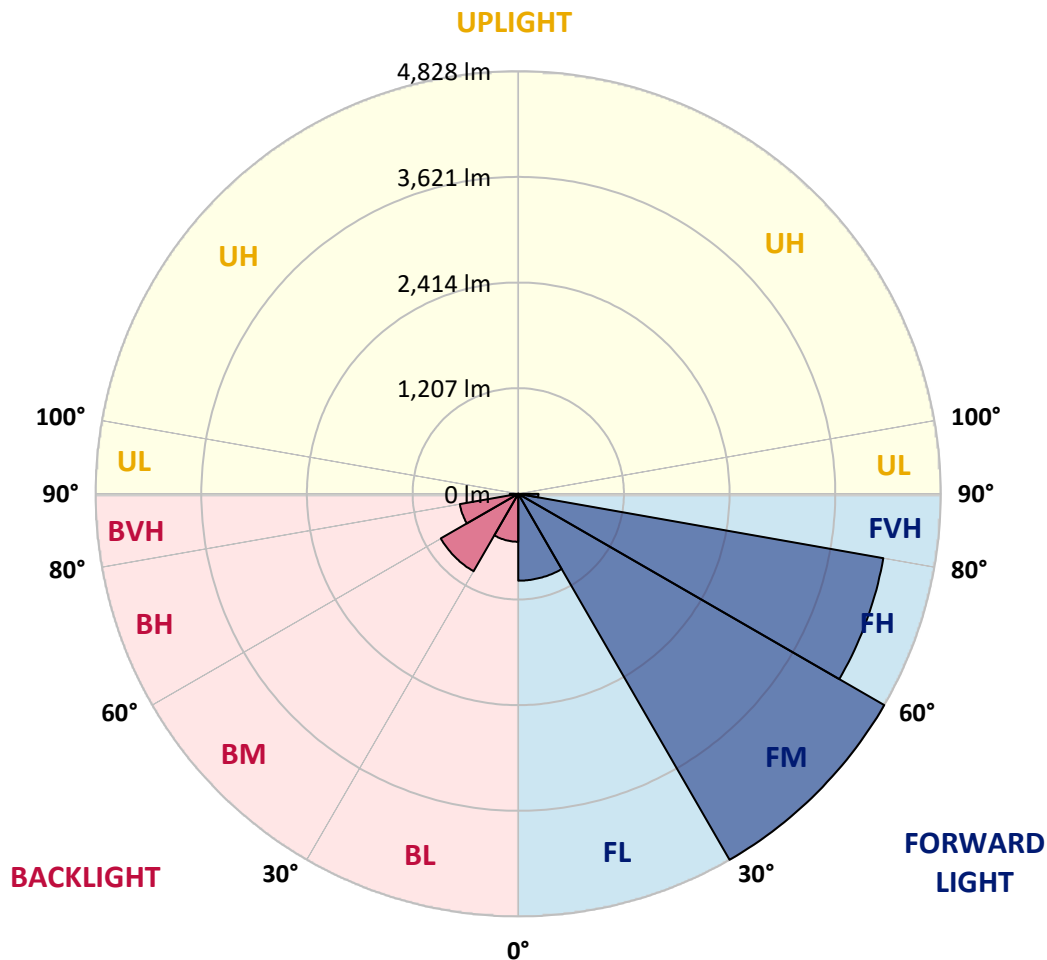


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.6	7.9			
FM (30°-60°)	4827.8	38.2			
FH (60°-80°)	4234.9	33.5			G2/5000
FVH (80°-90°)	230.0	1.8			G3/500
BL (0°-30°)	547.6	4.3	B2/1000		
BM (30°-60°)	1021.1	8.1	B2/2500		
BH (60°-80°)	677.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	96.1	0.8			G1/100
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°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1716.2	1713.6	1704.5	1704.5	1687.1	1672.3	1644.4	1625.8	1603.6	1595.7	1569.7
5°	1882.3	1883.2	1871.9	1864.0	1838.4	1807.1	1759.7	1716.6	1673.6	1656.2	1602.7
7.5°	2021.9	2020.1	2017.1	2010.6	1986.6	1954.5	1890.6	1826.6	1763.2	1737.1	1644.9
10°	2111.4	2115.3	2118.0	2121.0	2111.0	2088.0	2027.5	1949.7	1866.6	1831.0	1695.3
12.5°	2156.7	2163.6	2175.8	2196.7	2213.2	2210.6	2166.7	2084.0	1985.3	1940.6	1758.4
15°	2183.2	2192.3	2211.4	2248.8	2295.4	2321.9	2310.1	2235.4	2125.3	2070.1	1835.3
17.5°	2199.7	2207.1	2236.7	2286.7	2355.8	2426.2	2457.1	2394.5	2283.6	2220.6	1923.6
20°	2211.0	2216.7	2253.6	2312.3	2401.9	2514.1	2600.2	2584.5	2458.0	2376.2	2015.8
22.5°	2236.2	2241.0	2276.2	2335.4	2434.5	2579.3	2738.0	2761.5	2641.9	2549.3	2114.5
25°	2306.7	2306.7	2336.2	2377.5	2470.6	2635.8	2854.5	2958.4	2829.7	2721.9	2205.8
27.5°	2441.0	2439.7	2450.6	2464.9	2535.4	2693.2	2958.4	3132.4	3024.5	2906.7	2294.5
30°	2600.2	2608.9	2610.2	2603.2	2636.2	2765.0	3054.5	3315.9	3220.6	3093.7	2385.4
32.5°	2805.0	2810.6	2804.1	2781.0	2776.3	2866.7	3148.9	3508.0	3432.8	3288.9	2468.4
35°	3065.0	3054.1	3033.7	2986.7	2941.9	3002.8	3256.7	3700.2	3671.1	3525.0	2582.8
37.5°	3343.7	3344.1	3318.9	3212.4	3150.6	3176.7	3405.4	3918.1	3959.4	3805.9	2729.3
40°	3567.2	3578.9	3594.6	3454.6	3374.6	3410.6	3594.6	4170.7	4300.3	4138.9	2920.2
42.5°	3723.3	3736.8	3781.1	3693.3	3610.2	3677.2	3817.2	4440.3	4682.9	4523.3	3143.7
45°	3888.5	3895.9	3927.2	3889.4	3836.3	3987.2	4068.1	4719.4	5087.7	4932.9	3393.7
47.5°	4062.4	4070.2	4102.4	4077.2	4049.4	4276.8	4329.8	4982.5	5475.6	5382.9	3660.7
50°	4277.2	4282.4	4312.9	4267.2	4275.9	4495.1	4563.8	5223.8	5882.1	5787.3	3928.5
52.5°	4570.3	4571.6	4613.8	4572.5	4531.6	4655.1	4765.1	5451.2	6200.8	6156.0	4196.3
55°	4799.9	4813.8	4952.0	4943.3	4919.9	4800.3	4933.3	5667.7	6485.2	6506.5	4480.7
57.5°	4653.3	4707.7	4987.7	5185.1	5377.3	5161.6	5160.8	5911.7	6749.5	6850.4	4793.3
60°	4075.5	4149.4	4562.0	4999.9	5601.2	5790.4	5633.0	6209.5	7016.5	7191.3	5185.1
62.5°	2910.6	3032.4	3591.5	4290.7	5294.2	6206.9	6593.9	6682.1	7379.6	7586.1	5694.3
65°	1471.4	1563.6	2032.3	2874.5	4229.8	5934.7	7638.3	7717.0	8010.5	8194.0	6478.2
67.5°	894.0	928.8	1157.5	1598.8	2593.2	4622.9	7979.2	9441.9	9231.4	9328.8	7596.1
70°	658.7	684.4	827.0	1061.8	1491.4	2712.8	6933.0	10672.8	10534.6	10523.7	8422.3
72°	513.1	531.8	657.9	857.9	1090.5	1627.5	5025.1	10218.5	10907.6	10852.8	8346.6
72.5°	486.6	503.1	617.9	807.4	1030.5	1475.3	4518.1	9911.9	10880.7	10855.9	8248.8
75°	383.1	394.8	457.4	624.4	806.6	837.0	2475.8	7681.3	9652.3	10053.7	7419.2
77.5°	317.0	318.7	351.8	454.4	628.7	591.8	1216.2	5329.5	6911.7	7353.1	5255.5
80°	258.3	260.5	276.1	318.7	475.7	437.9	577.4	3064.5	3869.8	3874.6	2499.3
82.5°	205.7	206.1	223.5	233.1	341.8	313.1	330.9	1438.8	1691.0	1626.6	898.3
85°	144.8	141.7	218.3	191.3	223.5	200.9	182.6	569.6	699.2	668.7	281.3
87.5°	48.3	50.0	97.0	123.9	130.4	113.9	81.3	218.3	263.9	261.8	89.1
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°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1561.4	1547.5	1527.1	1504.4	1486.6	1468.4	1454.9	1447.9	1440.1	1433.6	1441.4
5°	1577.9	1551.8	1508.4	1465.7	1434.4	1406.6	1386.6	1376.2	1366.6	1360.1	1361.0
7.5°	1604.9	1562.7	1489.7	1427.5	1384.0	1354.0	1333.6	1326.6	1320.5	1318.8	1321.0
10°	1633.6	1571.4	1464.9	1382.3	1332.7	1307.9	1298.8	1303.6	1307.9	1311.8	1316.2
12.5°	1666.2	1579.2	1428.8	1329.2	1287.0	1277.5	1286.6	1307.5	1322.7	1331.8	1337.5
15°	1708.8	1586.2	1387.0	1276.2	1247.9	1258.8	1289.6	1325.7	1352.3	1369.2	1371.8
17.5°	1747.9	1585.7	1333.6	1222.7	1216.2	1247.9	1294.4	1345.3	1381.0	1404.9	1409.7
20°	1788.4	1574.0	1271.4	1170.5	1184.0	1236.2	1296.6	1357.9	1401.0	1428.8	1435.3
22.5°	1826.2	1553.6	1203.1	1123.1	1157.0	1220.5	1288.3	1350.5	1393.6	1416.2	1423.1
25°	1851.9	1517.9	1134.0	1083.1	1133.1	1201.4	1261.4	1311.4	1343.6	1354.9	1356.6
27.5°	1864.9	1471.4	1068.8	1048.3	1108.3	1170.1	1211.4	1236.2	1245.3	1244.4	1242.7
30°	1866.6	1410.1	1012.7	1020.1	1079.6	1124.0	1143.5	1138.8	1127.0	1107.0	1108.8
32.5°	1861.0	1341.0	965.7	993.1	1043.1	1067.9	1068.8	1045.7	1014.4	982.7	974.0
35°	1862.7	1273.1	924.4	962.7	998.8	1009.6	999.6	965.7	923.1	882.2	873.5
37.5°	1881.9	1214.0	888.8	927.4	949.6	952.2	937.9	902.2	870.9	830.9	827.4
40°	1927.5	1171.8	854.8	887.9	900.5	901.8	881.4	856.1	858.7	837.4	837.0
42.5°	2009.7	1153.5	824.8	846.6	854.4	857.0	841.4	825.3	847.9	834.0	829.2
45°	2115.8	1157.9	799.6	806.1	820.5	832.7	823.1	803.5	812.2	751.8	731.8
47.5°	2238.4	1185.7	779.6	771.4	796.1	819.2	804.4	774.8	744.0	684.0	672.6
50°	2381.9	1228.8	761.4	737.0	769.6	800.9	786.1	744.0	697.4	668.3	664.4
52.5°	2531.5	1281.4	743.1	699.2	736.1	787.0	779.6	737.0	679.6	650.9	645.7
55°	2701.0	1334.4	720.0	655.3	700.0	780.5	776.6	711.8	666.1	650.0	646.1
57.5°	2911.9	1394.9	689.6	609.6	666.1	757.0	744.8	696.6	652.2	640.0	638.7
60°	3186.7	1484.0	645.7	560.9	624.8	720.9	718.3	674.4	630.0	621.3	619.6
62.5°	3598.9	1631.4	585.3	512.2	578.7	659.6	683.5	644.4	606.6	606.1	607.0
65°	4238.1	1853.2	519.6	469.6	532.2	607.9	643.1	613.5	582.6	591.3	592.6
67.5°	4979.0	2037.1	455.2	427.9	484.8	558.7	606.6	582.6	550.9	573.5	573.9
70°	5225.5	1872.7	398.7	386.5	435.7	511.3	567.0	548.7	516.6	539.2	537.0
72°	4862.9	1511.8	362.2	355.2	398.7	472.2	531.8	517.0	485.2	500.5	494.8
72.5°	4748.6	1441.4	353.1	347.4	388.7	462.2	522.6	509.2	477.4	490.5	485.2
75°	4235.9	1251.8	303.5	304.8	339.2	413.5	471.3	467.0	434.4	435.7	433.9
77.5°	3072.4	917.9	255.7	264.4	288.7	363.5	419.6	417.0	381.3	374.8	373.5
80°	1425.7	468.3	208.3	212.2	237.4	303.9	357.8	354.4	325.7	317.4	312.6
82.5°	488.3	222.6	156.5	159.1	183.9	244.8	310.5	308.3	284.4	268.3	258.3
85°	174.4	110.9	109.6	107.0	131.3	192.6	270.5	258.7	223.5	190.4	189.6
87.5°	56.5	47.4	56.5	56.1	76.5	130.4	196.5	167.4	162.2	134.8	132.2
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)