

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: P387189

Luminaire Tested: GAW-SA2D-830-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-830-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12778 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

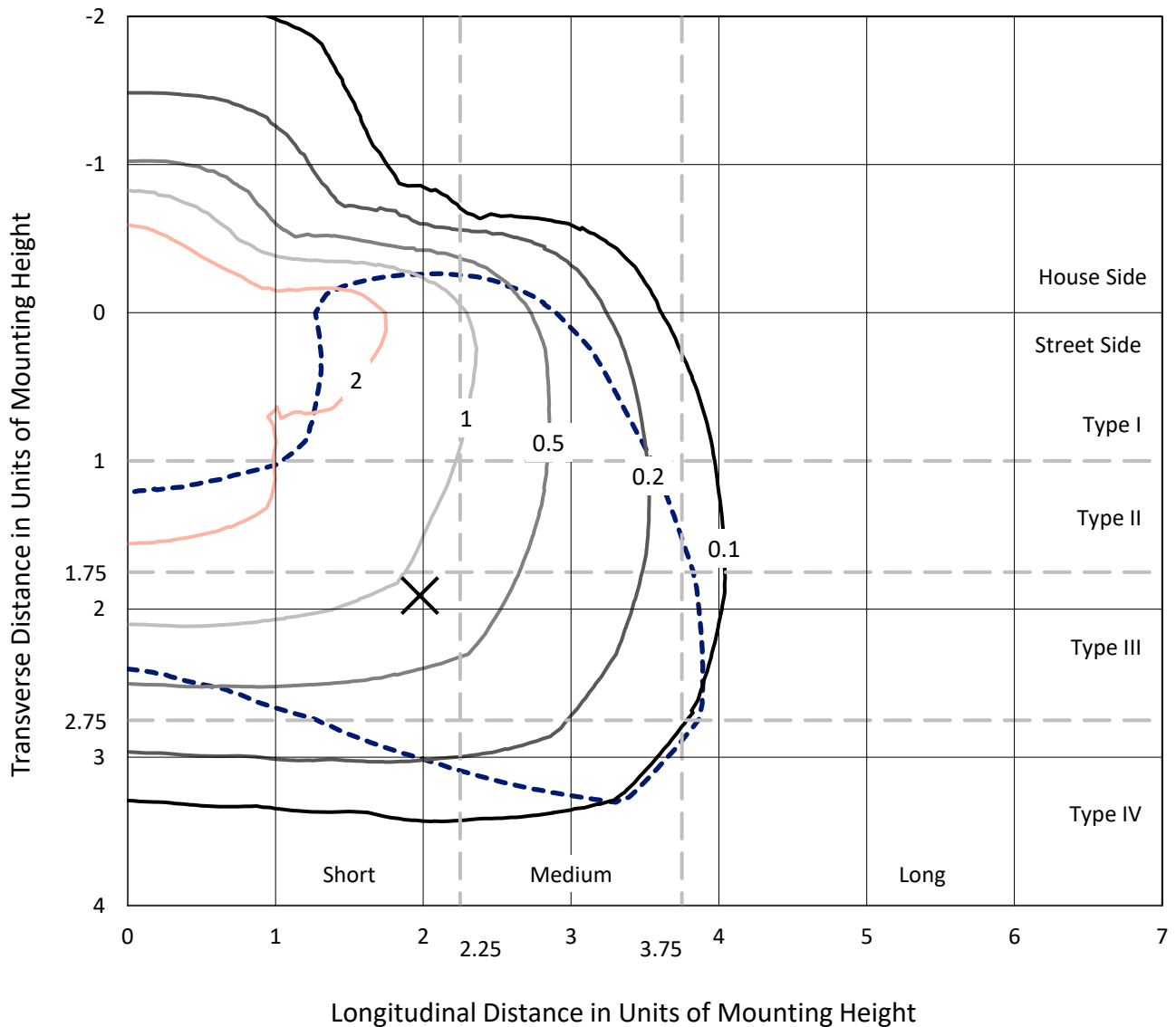
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

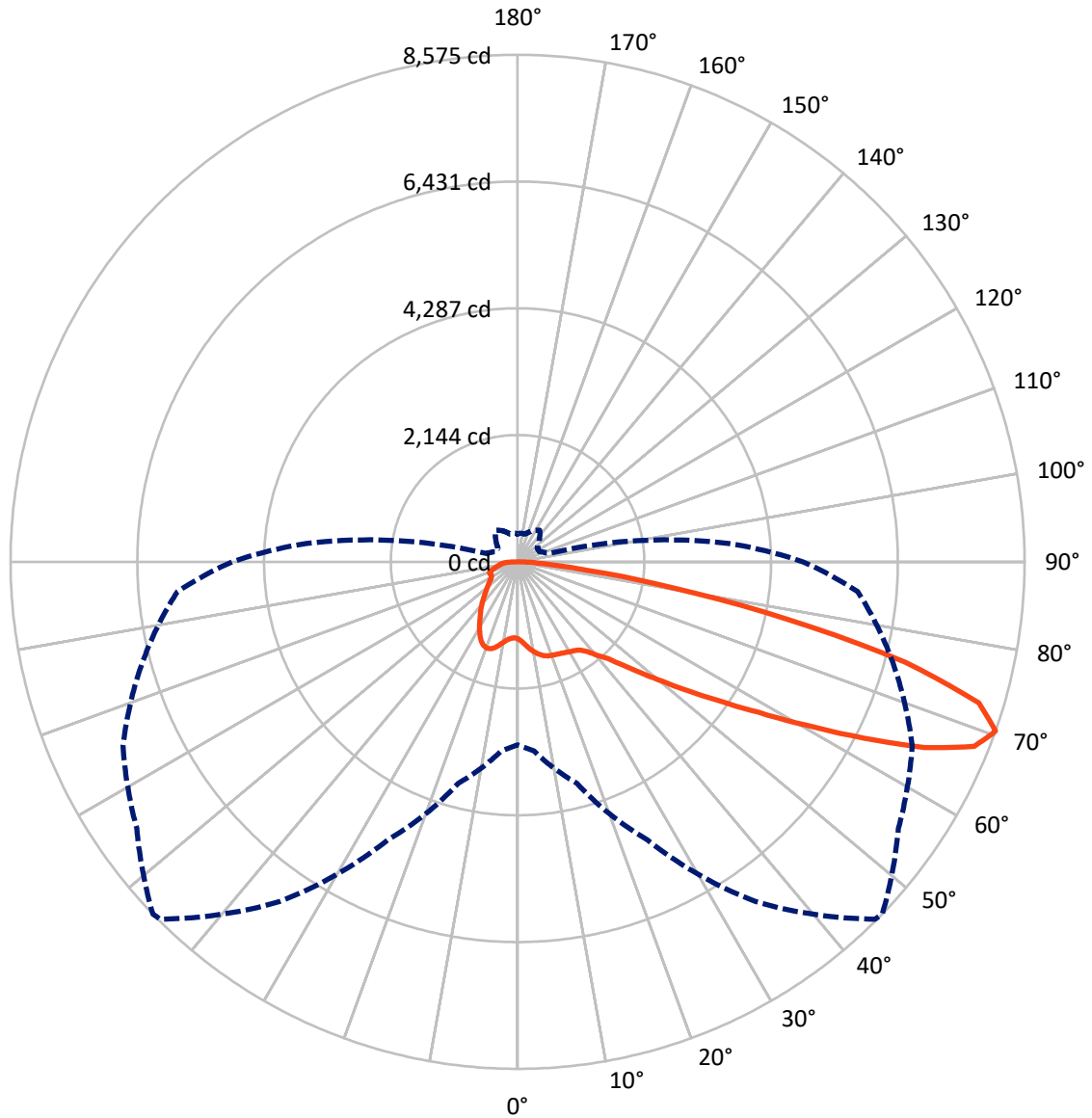
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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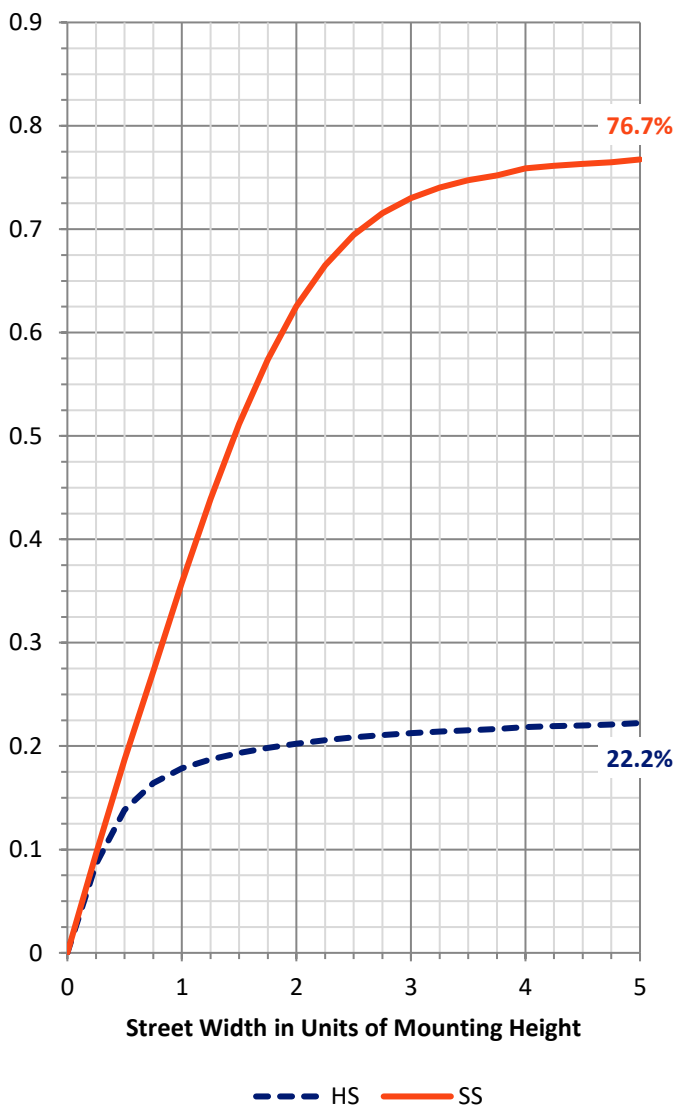
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2928.7	0.0	2928.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9849.3	0.0	9849.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	12778.0	0.0	12778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	1.0
10°-20°	442.2	3.5
20°-30°	737.2	5.8
30°-40°	1046.2	8.2
40°-50°	1538.9	12.0
50°-60°	2606.1	20.4
60°-70°	3699.3	29.0
70°-80°	2247.4	17.6
80°-90°	328.0	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°	12778.0	100.0
0°-180°	12778.0	100.0

Coefficient of Utilization



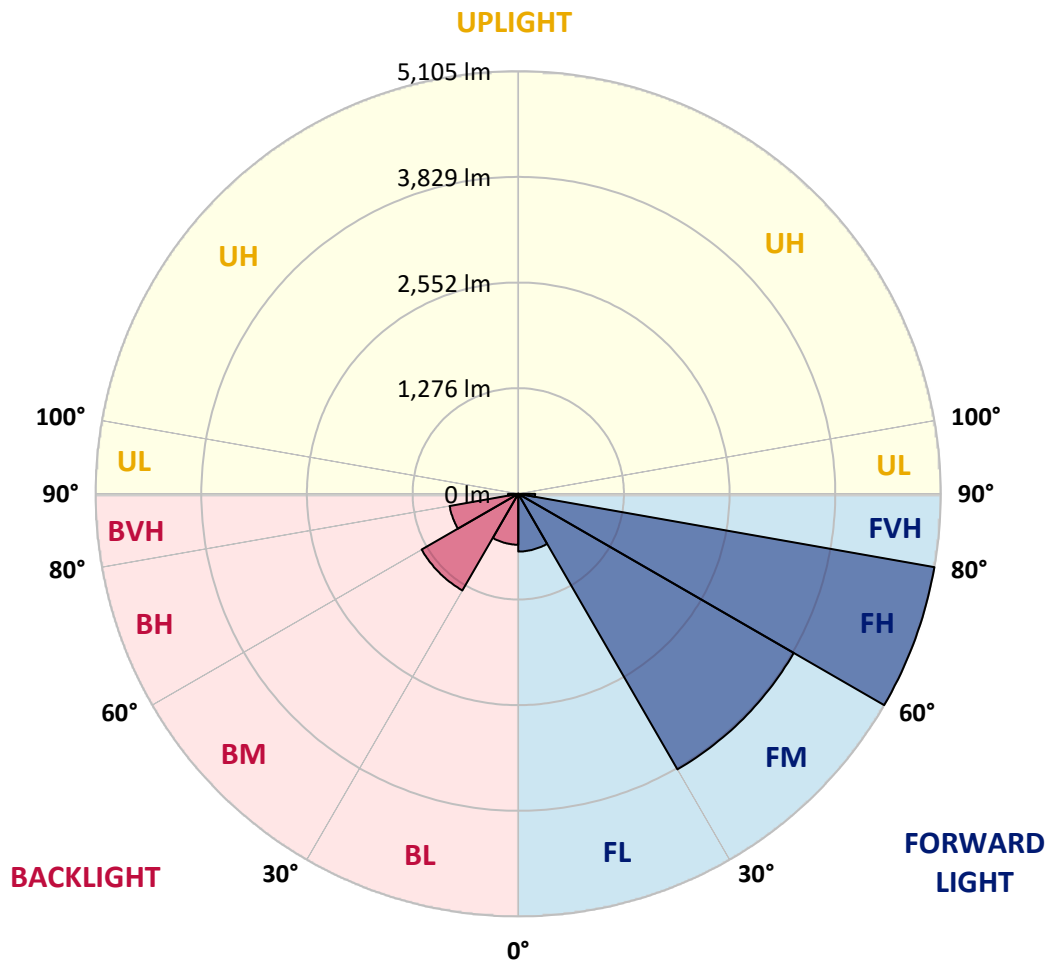
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.2	5.5			
FM (30°-60°)	3843.1	30.1			
FH (60°-80°)	5104.7	39.9			G3/7500
FVH (80°-90°)	204.3	1.6			G2/225
BL (0°-30°)	614.9	4.8	B2/1000		
BM (30°-60°)	1348.1	10.6	B2/2500		
BH (60°-80°)	842.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	123.7	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8
2.5°	1367.0	1367.9	1369.6	1365.2	1353.0	1349.5	1348.2	1335.5	1327.2	1314.9	1304.5
5°	1476.3	1477.2	1474.6	1462.3	1435.2	1415.1	1413.3	1384.5	1358.2	1330.3	1309.3
7.5°	1590.4	1591.8	1583.4	1560.3	1522.2	1487.2	1485.1	1445.7	1405.9	1363.5	1332.0
10°	1691.5	1686.2	1672.7	1640.3	1595.3	1552.4	1550.6	1509.5	1463.6	1412.5	1370.5
12.5°	1758.8	1754.4	1736.9	1697.6	1648.2	1608.8	1605.3	1567.3	1522.7	1466.7	1416.4
15°	1796.0	1799.0	1775.4	1730.8	1682.7	1649.5	1646.4	1619.3	1579.5	1523.1	1465.4
17.5°	1800.8	1803.4	1780.7	1736.5	1697.1	1674.4	1673.1	1655.2	1626.3	1572.1	1511.7
20°	1772.8	1774.5	1755.7	1719.4	1693.6	1686.6	1686.2	1678.3	1656.9	1608.8	1550.2
22.5°	1732.1	1733.4	1719.9	1693.6	1684.9	1695.8	1698.9	1695.8	1680.5	1635.5	1580.4
25°	1722.1	1721.2	1707.2	1680.5	1688.0	1711.1	1715.1	1716.4	1705.9	1666.5	1618.9
27.5°	1770.6	1767.5	1740.9	1698.0	1702.8	1730.8	1736.1	1748.7	1742.2	1707.6	1662.6
30°	1911.0	1905.7	1851.1	1764.5	1740.9	1755.3	1761.9	1782.0	1783.3	1754.4	1720.8
32.5°	2148.0	2141.4	2043.5	1888.7	1805.2	1780.2	1786.4	1816.5	1832.7	1810.4	1774.1
35°	2447.5	2440.1	2311.5	2099.9	1912.7	1827.9	1832.3	1856.3	1888.7	1857.2	1809.1
37.5°	2759.8	2741.8	2618.1	2348.3	2083.7	1929.8	1929.8	1932.8	1948.2	1882.6	1850.2
40°	3070.3	3052.3	2940.4	2640.4	2305.0	2090.3	2080.2	2012.4	2000.2	1943.8	1932.8
42.5°	3358.9	3353.6	3287.6	2970.5	2564.7	2248.1	2234.1	2119.1	2121.8	2086.8	2087.2
45°	3665.8	3665.8	3612.1	3303.8	2867.3	2501.8	2487.8	2318.5	2344.8	2328.6	2367.5
47.5°	3916.4	3924.3	3916.9	3651.0	3219.4	2824.1	2798.7	2594.9	2668.4	2723.9	2837.2
50°	4172.2	4184.5	4185.8	4031.9	3644.9	3207.1	3178.3	2961.8	3125.8	3285.0	3507.5
52.5°	4543.5	4571.0	4461.3	4411.9	4166.1	3661.9	3633.5	3433.6	3707.4	3930.8	4314.4
55°	4887.6	4863.6	4785.3	4815.9	4724.1	4179.7	4158.2	3982.9	4355.5	4645.8	5143.9
57.5°	5073.9	5072.2	5150.9	5282.1	5325.8	4818.1	4800.2	4629.6	5086.2	5304.4	5922.7
60°	5292.6	5295.6	5490.7	5788.5	5968.6	5613.1	5605.3	5475.8	5795.9	5919.2	6533.6
62.5°	5323.2	5378.3	5714.1	6226.6	6570.4	6541.9	6559.4	6238.0	6430.9	6409.9	6989.7
65°	4971.2	5043.8	5651.6	6359.1	7168.6	7557.8	7574.0	7004.6	6931.6	6829.2	7152.8
67.5°	4249.6	4357.2	5017.5	6071.0	7365.8	8308.6	8331.3	7598.9	7347.0	6971.4	6760.1
70°	3092.6	3211.9	3876.6	5185.0	7014.2	8548.7	8574.5	7861.7	7362.7	6566.9	5771.0
72.5°	1868.1	1961.7	2509.6	3817.2	5920.1	8111.4	8157.3	7528.5	6722.1	5562.4	4261.4
75°	820.4	881.6	1213.5	2199.6	4238.3	6711.2	6768.5	6444.0	5461.8	4042.4	2518.8
77.5°	349.4	366.9	497.6	955.5	2395.9	4585.9	4664.6	4708.4	3705.6	2199.6	1064.4
80°	217.8	224.8	281.6	432.5	1121.2	2575.7	2660.5	2770.3	1840.1	808.6	371.7
82.5°	132.5	140.4	187.2	261.5	583.8	1167.6	1208.2	1285.6	714.1	349.4	192.4
85°	79.6	85.3	114.6	165.3	332.3	459.2	458.7	507.3	336.3	224.8	101.5
87.5°	38.0	42.4	61.2	85.7	167.5	172.3	161.4	182.8	204.2	147.4	51.2
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°	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8	1301.8
2.5°	1301.0	1299.2	1293.5	1289.1	1288.3	1285.6	1283.5	1284.8	1286.5	1287.0	1287.0
5°	1300.5	1295.7	1288.3	1285.2	1289.1	1294.4	1301.0	1309.7	1314.9	1318.9	1321.5
7.5°	1321.5	1312.3	1304.0	1302.3	1310.1	1324.1	1339.0	1357.4	1370.0	1378.8	1380.5
10°	1356.5	1345.1	1336.8	1338.6	1352.6	1372.7	1393.7	1417.3	1436.5	1448.3	1449.2
12.5°	1396.7	1385.8	1377.9	1385.4	1408.5	1433.0	1454.9	1475.4	1492.9	1504.7	1504.7
15°	1443.1	1435.2	1426.0	1443.1	1474.6	1496.4	1505.6	1515.7	1525.3	1534.0	1532.3
17.5°	1487.7	1480.2	1475.4	1495.5	1528.3	1538.4	1532.3	1524.8	1524.8	1529.7	1530.5
20°	1526.2	1519.6	1522.7	1542.3	1559.4	1548.9	1526.2	1502.5	1492.9	1495.5	1498.2
22.5°	1559.8	1556.8	1566.0	1575.1	1562.9	1526.2	1484.2	1452.3	1440.5	1439.6	1440.5
25°	1599.2	1598.8	1610.1	1593.5	1539.3	1471.5	1415.1	1384.0	1377.5	1382.7	1391.5
27.5°	1648.2	1653.0	1658.7	1597.9	1491.2	1388.8	1331.6	1310.1	1316.7	1329.4	1337.7
30°	1710.7	1723.8	1711.6	1586.9	1422.1	1294.4	1239.7	1233.6	1251.5	1269.5	1278.2
32.5°	1771.5	1792.0	1762.3	1558.5	1332.9	1194.3	1151.8	1150.1	1172.0	1189.4	1201.7
35°	1820.5	1861.1	1800.3	1502.1	1229.7	1102.0	1070.9	1059.1	1067.0	1087.6	1101.5
37.5°	1884.3	1952.1	1826.6	1416.0	1117.7	1025.9	989.6	962.5	955.5	963.8	970.8
40°	2001.1	2090.7	1838.8	1295.7	1008.4	949.8	913.1	873.3	845.7	825.6	826.1
42.5°	2191.7	2271.3	1831.0	1149.6	907.4	875.5	833.9	788.0	743.4	697.9	694.4
45°	2501.3	2539.8	1807.3	994.8	818.6	797.6	758.7	712.8	653.3	601.7	596.9
47.5°	2996.8	2911.5	1770.6	859.7	740.3	731.6	695.7	642.8	579.9	538.3	534.8
50°	3672.4	3448.1	1752.7	752.1	671.2	673.9	644.6	588.6	529.1	498.5	495.0
52.5°	4480.5	4073.0	1787.2	669.1	615.7	624.9	603.0	550.6	500.7	476.7	473.2
55°	5318.8	4720.2	1824.4	608.7	563.2	581.2	573.7	530.4	485.4	463.1	460.0
57.5°	6036.4	5203.4	1750.1	559.7	516.4	544.4	551.0	517.8	477.5	457.4	453.9
60°	6488.2	5398.0	1555.0	513.8	479.3	515.1	537.9	514.3	480.6	478.8	476.2
62.5°	6702.4	5380.9	1262.5	477.5	456.1	502.5	547.5	533.9	515.6	531.3	532.6
65°	6606.2	5123.8	940.2	453.5	439.5	507.3	576.4	571.1	525.6	541.4	543.6
67.5°	5973.0	4510.3	696.2	432.5	421.1	520.8	628.8	583.4	506.0	517.3	510.3
70°	4827.7	3575.8	537.0	408.9	402.3	519.1	652.4	575.9	484.5	487.1	468.3
72.5°	3329.1	2438.4	436.9	387.0	375.2	473.2	635.8	557.6	466.6	446.5	421.6
75°	1810.4	1308.8	371.3	364.3	327.5	415.4	605.2	544.4	450.4	423.7	409.7
77.5°	712.4	543.1	322.3	333.2	286.4	366.9	571.1	519.5	428.1	393.1	386.1
80°	290.8	277.2	267.2	288.2	246.2	321.0	530.0	490.2	401.4	364.7	350.7
82.5°	164.9	172.3	207.7	227.4	199.8	295.6	510.3	466.6	369.5	326.7	310.0
85°	84.4	101.0	144.7	163.1	146.9	251.4	470.1	408.4	296.5	250.1	251.4
87.5°	40.7	56.4	91.4	102.3	95.3	181.9	351.1	296.0	230.9	182.8	177.1
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)