

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: P387161

Luminaire Tested: GAW-SA2D-827-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387161
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-827-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 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: 11821 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

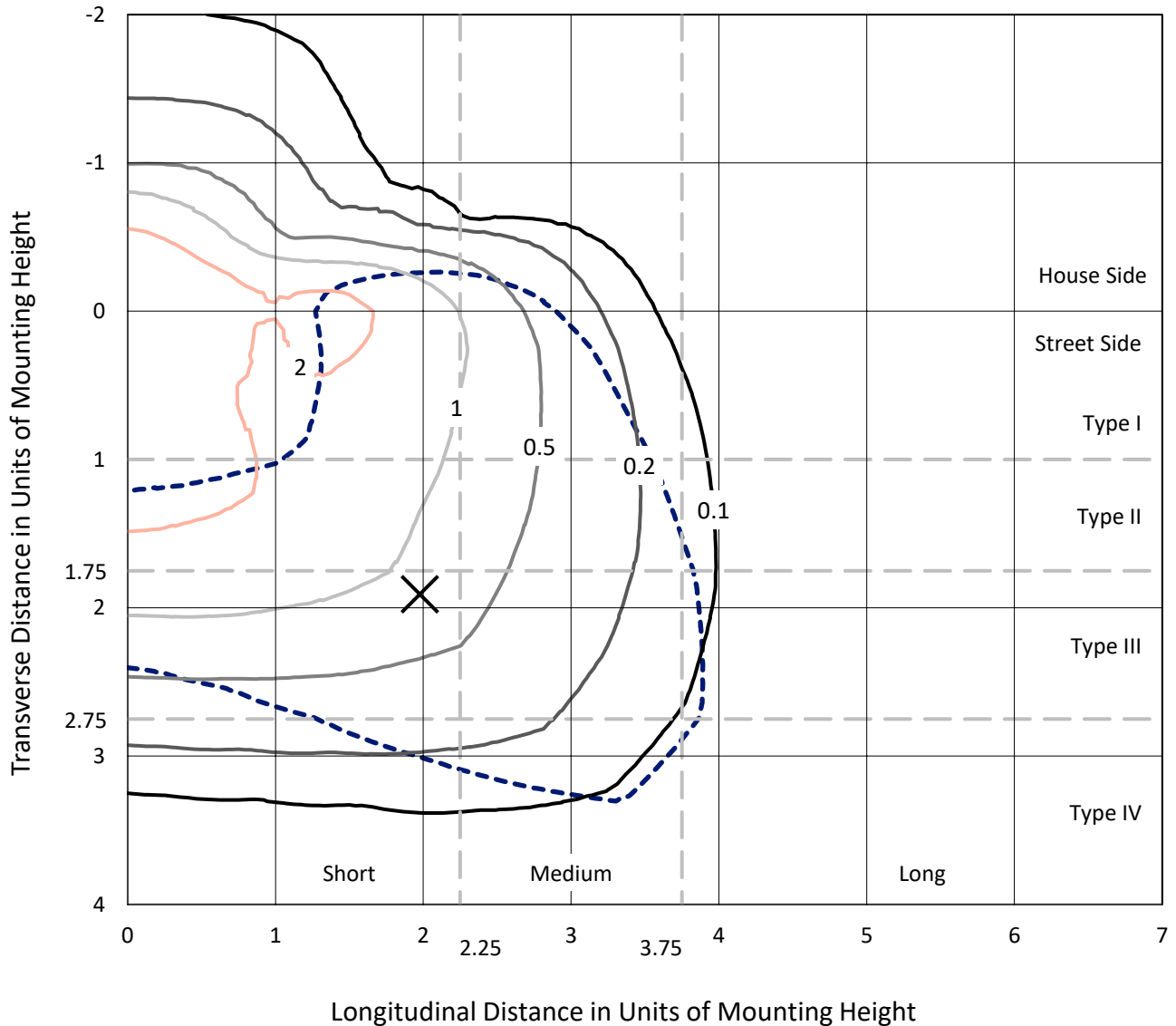
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

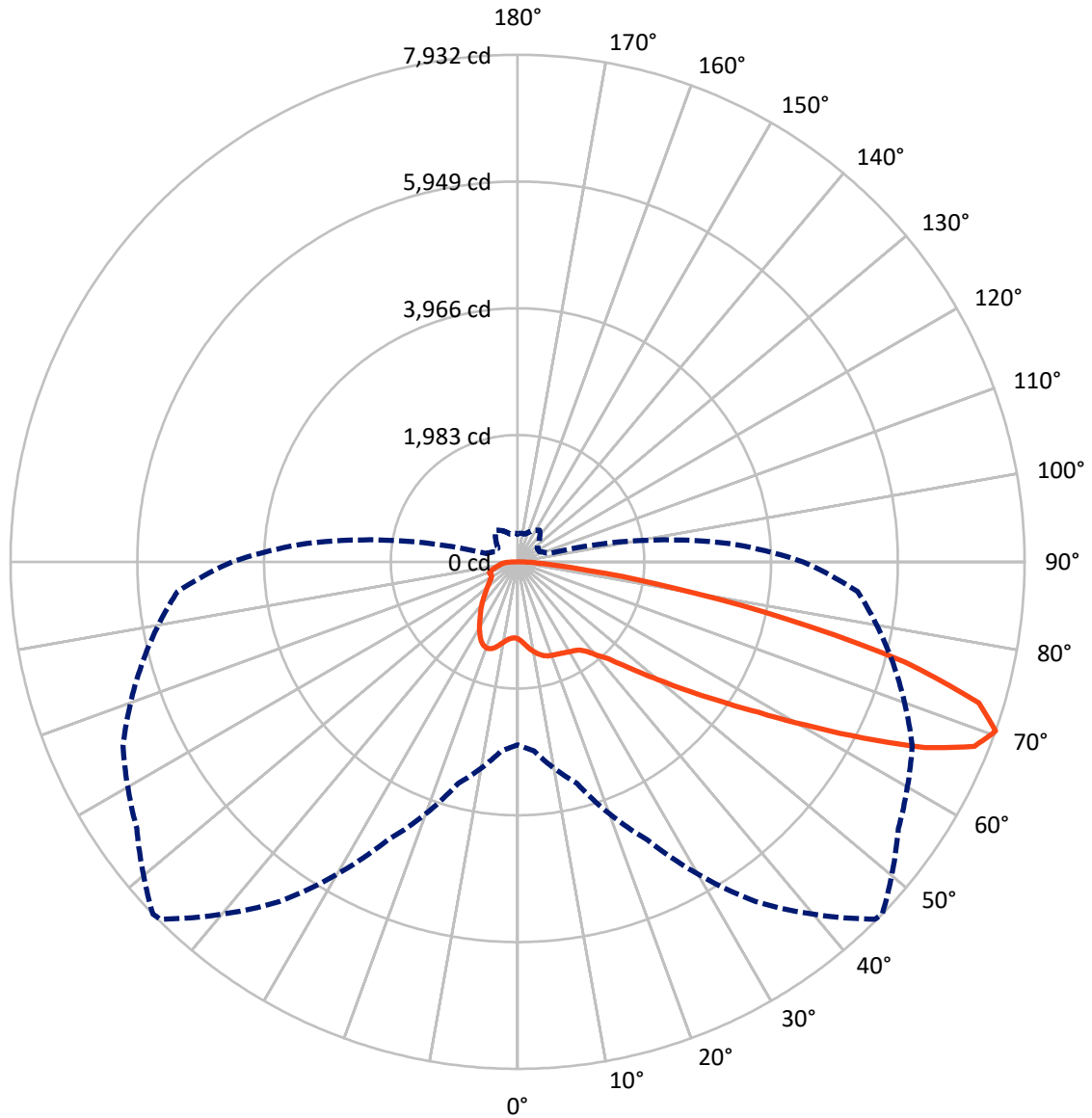
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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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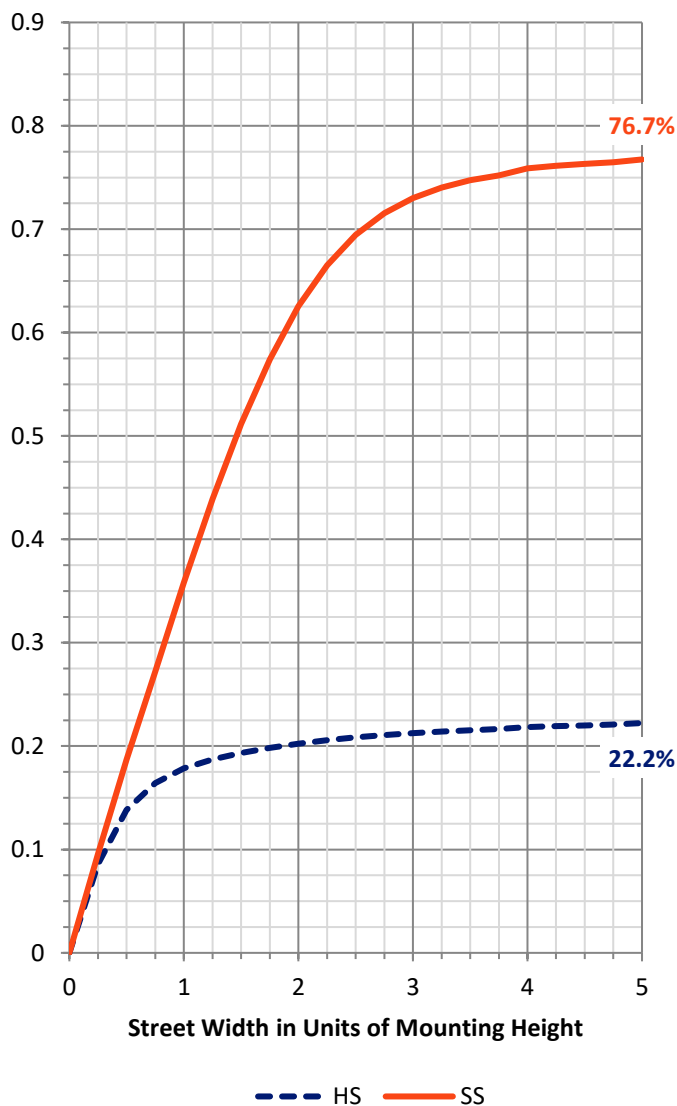
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2709.3	0.0	2709.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9111.7	0.0	9111.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	11821.0	0.0	11821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	1.0
10°-20°	409.0	3.5
20°-30°	682.0	5.8
30°-40°	967.8	8.2
40°-50°	1423.6	12.0
50°-60°	2410.9	20.4
60°-70°	3422.3	29.0
70°-80°	2079.1	17.6
80°-90°	303.4	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°	11821.0	100.0
0°-180°	11821.0	100.0

Coefficient of Utilization



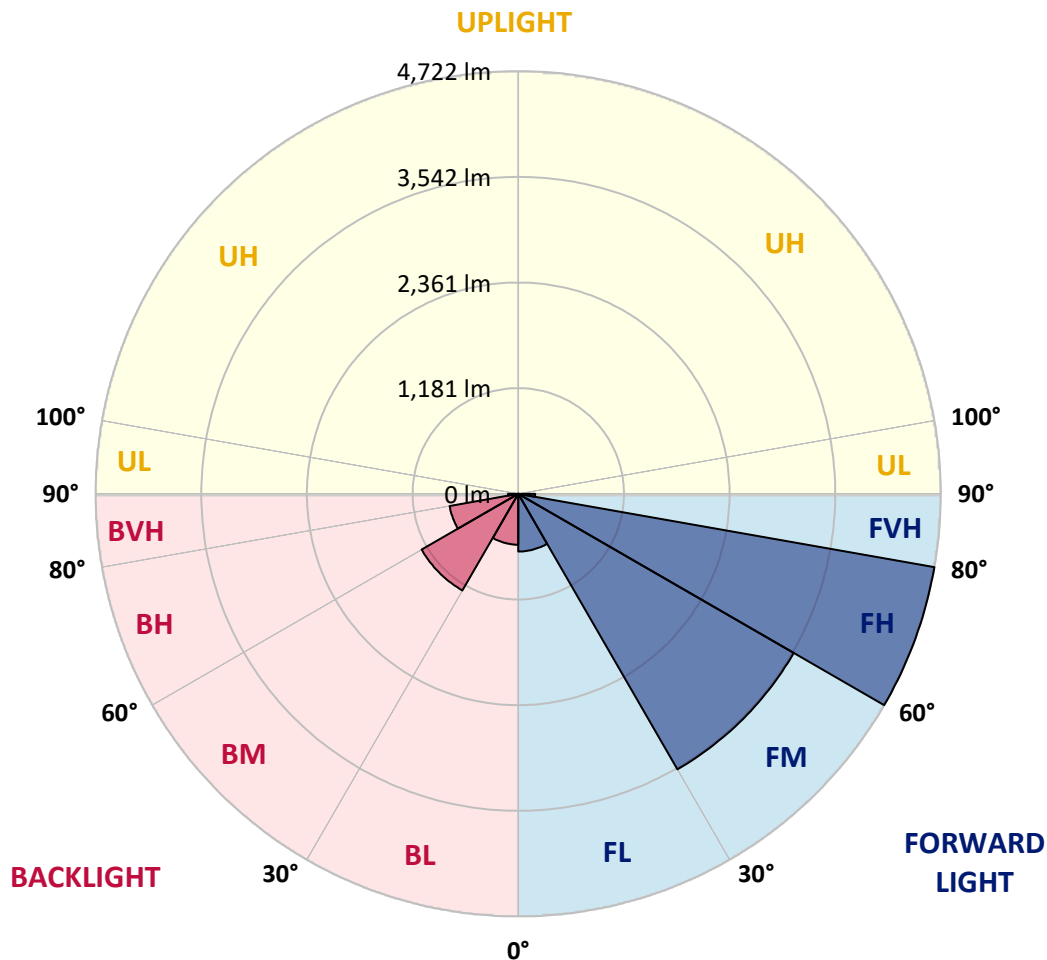
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.0	5.5			
FM (30°-60°)	3555.2	30.1			
FH (60°-80°)	4722.4	39.9			G2/5000
FVH (80°-90°)	189.0	1.6			G2/225
BL (0°-30°)	568.8	4.8	B2/1000		
BM (30°-60°)	1247.2	10.6	B2/2500		
BH (60°-80°)	778.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	114.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1264.6	1265.4	1267.0	1263.0	1251.7	1248.4	1247.2	1235.5	1227.8	1216.5	1206.8
5°	1365.7	1366.6	1364.1	1352.8	1327.7	1309.1	1307.5	1280.8	1256.5	1230.6	1211.2
7.5°	1471.3	1472.5	1464.9	1443.4	1408.2	1375.9	1373.8	1337.4	1300.6	1261.4	1232.2
10°	1564.8	1559.9	1547.4	1517.4	1475.8	1436.1	1434.5	1396.5	1354.0	1306.7	1267.8
12.5°	1627.1	1623.0	1606.9	1570.4	1524.7	1488.3	1485.1	1449.9	1408.6	1356.8	1310.3
15°	1661.5	1664.3	1642.5	1601.2	1556.7	1525.9	1523.1	1498.0	1461.2	1409.0	1355.6
17.5°	1665.9	1668.3	1647.3	1606.4	1570.0	1549.0	1547.8	1531.2	1504.5	1454.3	1398.5
20°	1640.0	1641.6	1624.2	1590.7	1566.8	1560.3	1559.9	1552.6	1532.8	1488.3	1434.1
22.5°	1602.4	1603.6	1591.1	1566.8	1558.7	1568.8	1571.7	1568.8	1554.7	1513.0	1462.0
25°	1593.1	1592.3	1579.3	1554.7	1561.5	1583.0	1586.6	1587.8	1578.1	1541.7	1497.6
27.5°	1638.0	1635.2	1610.5	1570.8	1575.3	1601.2	1606.0	1617.8	1611.7	1579.7	1538.1
30°	1767.9	1763.0	1712.4	1632.3	1610.5	1623.8	1629.9	1648.5	1649.7	1623.0	1591.9
32.5°	1987.1	1981.1	1890.4	1747.2	1670.0	1646.9	1652.6	1680.5	1695.4	1674.8	1641.2
35°	2264.2	2257.4	2138.4	1942.6	1769.5	1691.0	1695.0	1717.3	1747.2	1718.1	1673.6
37.5°	2553.1	2536.5	2422.0	2172.4	1927.7	1785.3	1785.3	1788.1	1802.2	1741.6	1711.6
40°	2840.3	2823.7	2720.2	2442.6	2132.4	1933.7	1924.4	1861.7	1850.4	1798.2	1788.1
42.5°	3107.3	3102.5	3041.4	2748.1	2372.7	2079.8	2066.8	1960.4	1962.8	1930.5	1930.9
45°	3391.3	3391.3	3341.5	3056.3	2652.6	2314.4	2301.5	2144.9	2169.2	2154.2	2190.2
47.5°	3623.1	3630.4	3623.5	3377.5	2978.3	2612.5	2589.1	2400.6	2468.5	2519.9	2624.7
50°	3859.8	3871.1	3872.3	3729.9	3371.9	2966.9	2940.2	2740.0	2891.7	3038.9	3244.9
52.5°	4203.2	4228.7	4127.2	4081.4	3854.1	3387.7	3361.4	3176.5	3429.7	3636.4	3991.2
55°	4521.6	4499.3	4426.9	4455.2	4370.3	3866.6	3846.8	3684.6	4029.3	4297.9	4758.7
57.5°	4693.9	4692.3	4765.1	4886.5	4926.9	4457.3	4440.7	4282.9	4705.3	4907.1	5479.1
60°	4896.2	4899.0	5079.5	5355.0	5521.6	5192.7	5185.4	5065.7	5361.8	5475.9	6044.3
62.5°	4924.5	4975.5	5286.2	5760.3	6078.3	6052.0	6068.2	5770.8	5949.2	5929.8	6466.2
65°	4598.9	4666.0	5228.3	5882.9	6631.7	6991.7	7006.7	6480.0	6412.4	6317.8	6617.1
67.5°	3931.4	4030.9	4641.7	5616.3	6814.1	7686.3	7707.4	7029.8	6796.7	6449.2	6253.9
70°	2860.9	2971.4	3586.3	4796.7	6488.9	7908.4	7932.3	7272.9	6811.3	6075.0	5338.8
72.5°	1728.2	1814.8	2321.7	3531.3	5476.7	7503.9	7546.4	6964.6	6218.7	5145.8	3942.3
75°	758.9	815.6	1122.6	2034.9	3920.8	6208.5	6261.5	5961.4	5052.8	3739.6	2330.2
77.5°	323.2	339.4	460.4	883.9	2216.5	4242.5	4315.3	4355.7	3428.1	2034.9	984.7
80°	201.5	207.9	260.5	400.1	1037.3	2382.8	2461.2	2562.8	1702.3	748.0	343.9
82.5°	122.6	129.9	173.1	241.9	540.1	1080.1	1117.8	1189.4	660.6	323.2	178.0
85°	73.6	78.9	106.0	152.9	307.5	424.8	424.4	469.3	311.1	207.9	93.9
87.5°	35.2	39.2	56.6	79.3	154.9	159.4	149.3	169.1	188.9	136.3	47.3
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°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1203.5	1201.9	1196.6	1192.6	1191.8	1189.4	1187.3	1188.6	1190.2	1190.6	1190.6
5°	1203.1	1198.7	1191.8	1189.0	1192.6	1197.5	1203.5	1211.6	1216.5	1220.1	1222.5
7.5°	1222.5	1214.0	1206.4	1204.7	1212.0	1225.0	1238.7	1255.7	1267.4	1275.5	1277.1
10°	1254.9	1244.4	1236.7	1238.3	1251.3	1269.9	1289.3	1311.1	1328.9	1339.9	1340.7
12.5°	1292.1	1282.0	1274.7	1281.6	1303.0	1325.7	1345.9	1364.9	1381.1	1392.0	1392.0
15°	1335.0	1327.7	1319.2	1335.0	1364.1	1384.4	1392.8	1402.2	1411.1	1419.1	1417.5
17.5°	1376.3	1369.4	1364.9	1383.5	1413.9	1423.2	1417.5	1410.6	1410.6	1415.1	1415.9
20°	1411.9	1405.8	1408.6	1426.8	1442.6	1432.9	1411.9	1390.0	1381.1	1383.5	1386.0
22.5°	1443.0	1440.2	1448.7	1457.2	1445.8	1411.9	1373.0	1343.5	1332.6	1331.8	1332.6
25°	1479.4	1479.0	1489.5	1474.2	1424.0	1361.3	1309.1	1280.4	1274.3	1279.2	1287.3
27.5°	1524.7	1529.2	1534.4	1478.2	1379.5	1284.8	1231.8	1212.0	1218.1	1229.8	1237.5
30°	1582.6	1594.7	1583.4	1468.1	1315.6	1197.5	1146.9	1141.2	1157.8	1174.4	1182.5
32.5°	1638.8	1657.8	1630.3	1441.8	1233.1	1104.8	1065.6	1064.0	1084.2	1100.4	1111.7
35°	1684.1	1721.7	1665.5	1389.6	1137.6	1019.5	990.7	979.8	987.1	1006.1	1019.0
37.5°	1743.2	1805.9	1689.8	1309.9	1034.0	949.1	915.5	890.4	883.9	891.6	898.1
40°	1851.2	1934.1	1701.1	1198.7	932.9	878.7	844.7	807.9	782.4	763.8	764.2
42.5°	2027.6	2101.2	1693.8	1063.5	839.4	809.9	771.5	729.0	687.7	645.7	642.4
45°	2314.0	2349.6	1672.0	920.3	757.3	737.9	701.9	659.4	604.4	556.7	552.2
47.5°	2772.3	2693.5	1638.0	795.3	684.9	676.8	643.6	594.7	536.4	498.0	494.8
50°	3397.4	3189.8	1621.4	695.8	621.0	623.4	596.3	544.5	489.5	461.2	457.9
52.5°	4145.0	3767.9	1653.4	619.0	569.6	578.1	557.9	509.3	463.2	441.0	437.7
55°	4920.5	4366.7	1687.8	563.1	521.1	537.6	530.8	490.7	449.0	428.4	425.6
57.5°	5584.3	4813.7	1619.0	517.8	477.8	503.7	509.7	479.0	441.8	423.2	419.9
60°	6002.2	4993.7	1438.6	475.3	443.4	476.6	497.6	475.7	444.6	443.0	440.5
62.5°	6200.5	4977.9	1167.9	441.8	421.9	464.8	506.5	493.9	477.0	491.5	492.7
65°	6111.5	4740.0	869.8	419.5	406.6	469.3	533.2	528.3	486.3	500.8	502.8
67.5°	5525.7	4172.5	644.0	400.1	389.6	481.8	581.7	539.7	468.1	478.6	472.1
70°	4466.2	3308.0	496.8	378.2	372.2	480.2	603.6	532.8	448.2	450.7	433.3
72.5°	3079.8	2255.7	404.1	358.0	347.1	437.7	588.2	515.8	431.6	413.0	390.0
75°	1674.8	1210.8	343.5	337.0	303.0	384.3	559.9	503.7	416.7	392.0	379.1
77.5°	659.0	502.4	298.1	308.3	265.0	339.4	528.3	480.6	396.0	363.7	357.2
80°	269.0	256.5	247.2	266.6	227.8	296.9	490.3	453.5	371.4	337.4	324.4
82.5°	152.5	159.4	192.2	210.4	184.9	273.5	472.1	431.6	341.8	302.2	286.8
85°	78.1	93.4	133.9	150.9	135.9	232.6	434.9	377.8	274.3	231.4	232.6
87.5°	37.6	52.2	84.5	94.7	88.2	168.3	324.8	273.9	213.6	169.1	163.8
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)