

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: P387014

Luminaire Tested: GAW-SA2D-727-U-T3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-727-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9867 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

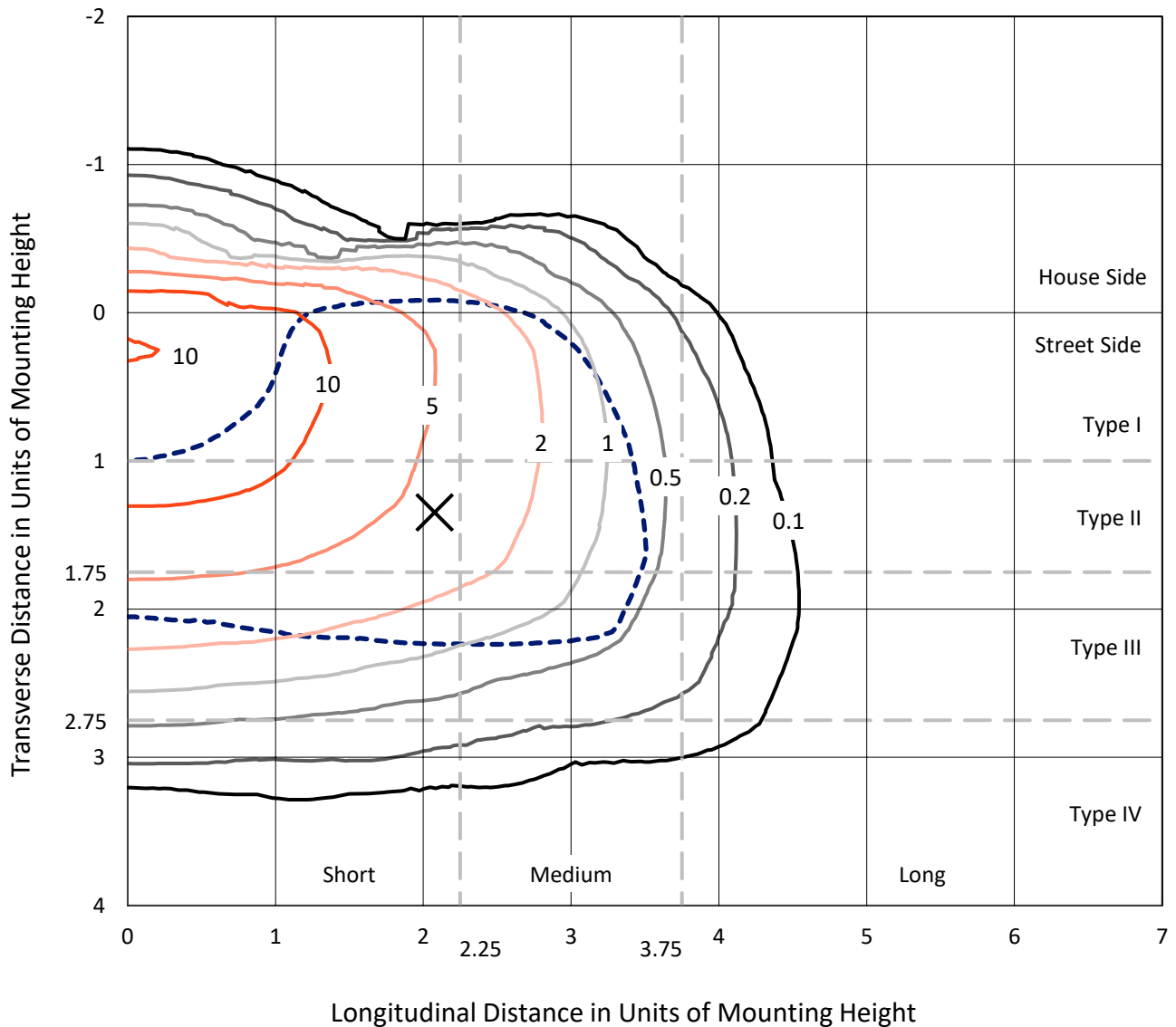
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

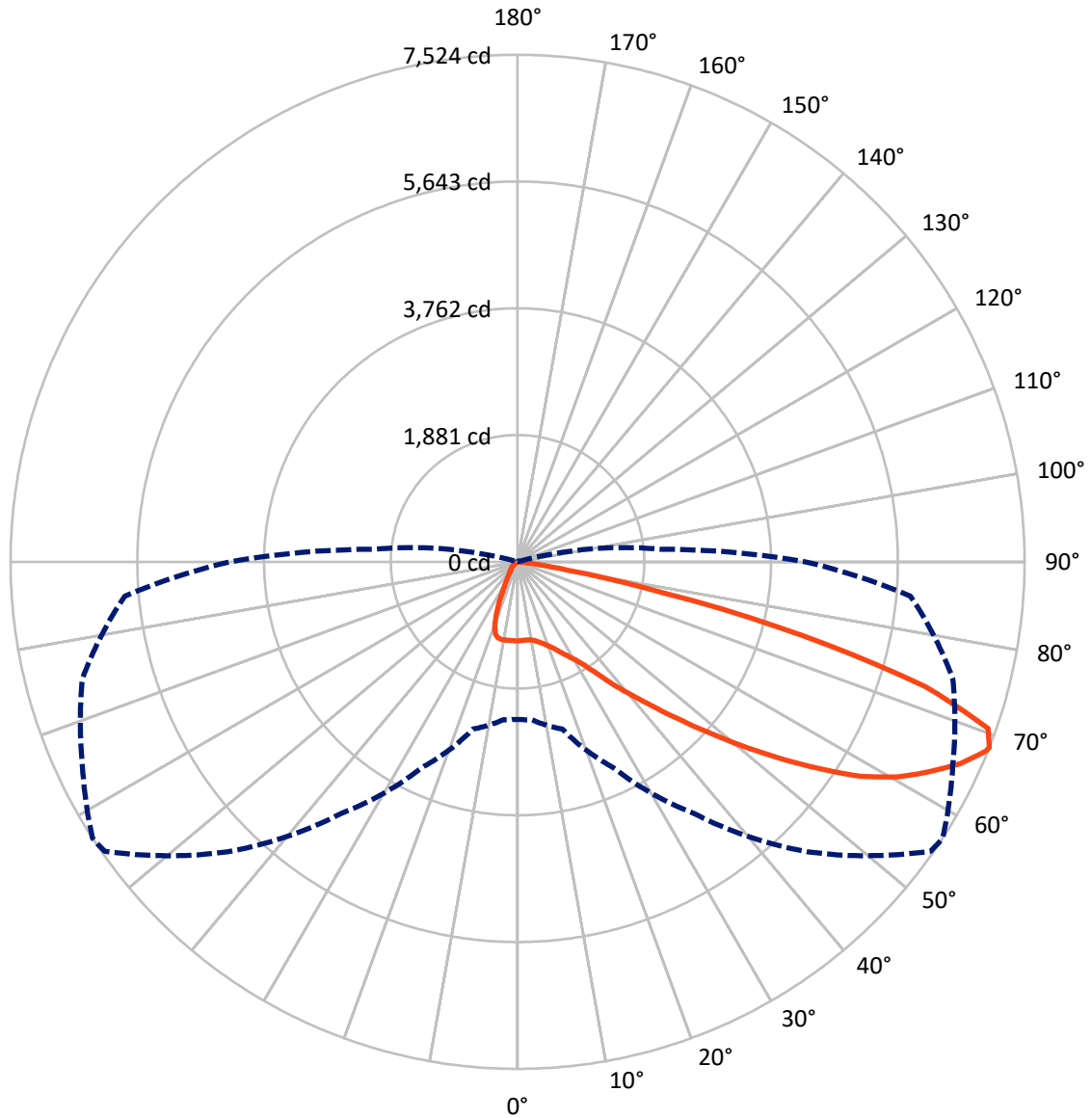
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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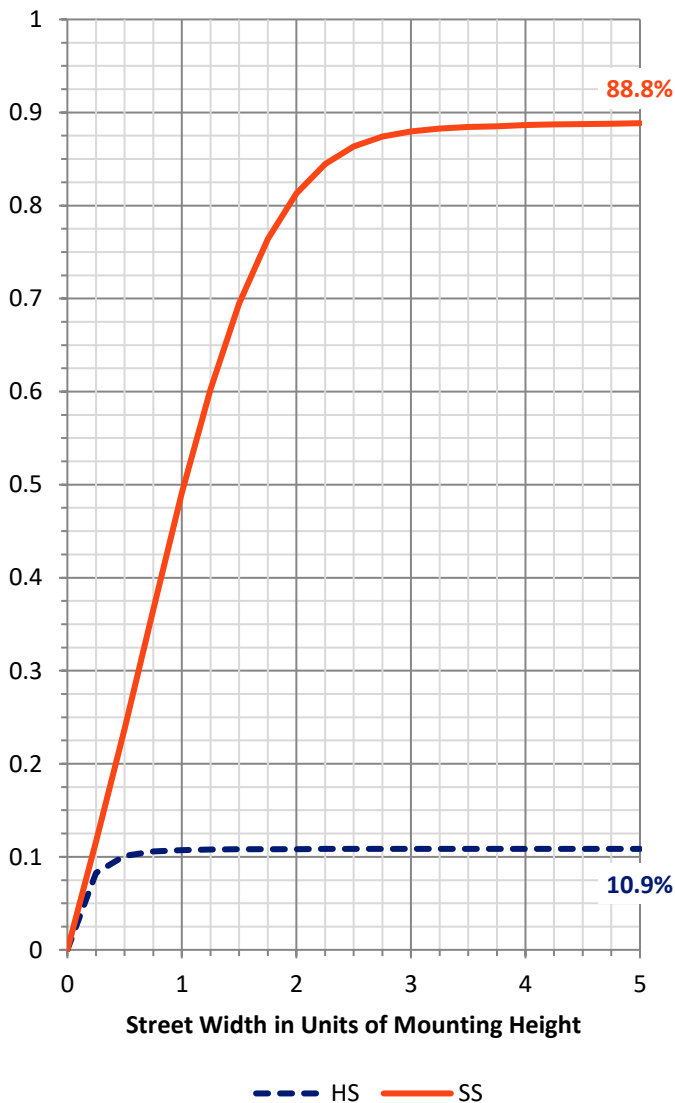
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1082.0	0.0	1082.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	8785.0	0.0	8785.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	9867.0	0.0	9867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.1
10°-20°	304.1	3.1
20°-30°	524.5	5.3
30°-40°	905.3	9.2
40°-50°	1548.5	15.7
50°-60°	2477.5	25.1
60°-70°	2862.5	29.0
70°-80°	1093.8	11.1
80°-90°	41.0	0.4
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°	9867.0	100.0
0°-180°	9867.0	100.0

Coefficient of Utilization

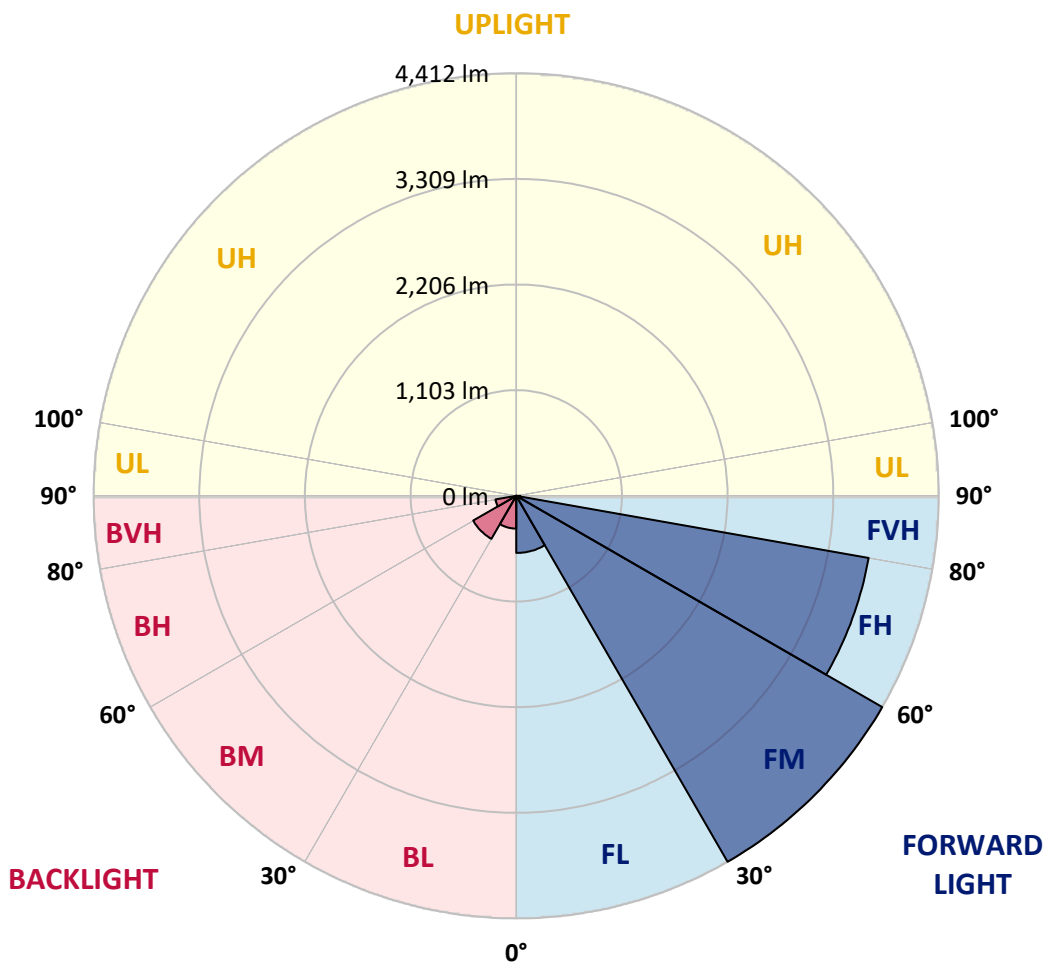


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.4	6.0			
FM (30°-60°)	4412.4	44.7			
FH (60°-80°)	3736.0	37.9			G2/5000
FVH (80°-90°)	40.3	0.4			G1/100
BL (0°-30°)	341.9	3.5	B1/500		
BM (30°-60°)	518.9	5.3	B1/1000		
BH (60°-80°)	220.4	2.2	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5
2.5°	1144.9	1150.1	1153.8	1156.1	1158.9	1165.0	1166.9	1169.7	1171.1	1171.1	1174.3
5°	1099.7	1105.3	1113.2	1119.7	1132.8	1149.6	1161.7	1166.4	1174.8	1182.3	1186.5
7.5°	1057.7	1064.2	1073.5	1088.9	1111.3	1138.4	1163.6	1170.1	1186.5	1202.3	1210.3
10°	1030.6	1035.8	1047.9	1069.8	1099.2	1137.0	1172.5	1180.4	1208.4	1235.0	1249.9
12.5°	1021.3	1026.0	1038.6	1063.3	1099.7	1144.0	1193.0	1204.7	1245.7	1284.4	1305.4
15°	1034.8	1035.8	1049.3	1072.6	1108.5	1161.3	1227.0	1241.0	1292.8	1343.2	1369.3
17.5°	1087.1	1082.9	1089.9	1100.1	1128.6	1184.1	1263.0	1284.0	1353.0	1412.3	1437.0
20°	1217.7	1217.7	1201.9	1173.9	1174.3	1219.6	1311.5	1335.3	1419.7	1488.3	1510.7
22.5°	1441.2	1437.0	1405.3	1336.7	1273.7	1280.7	1370.7	1401.5	1500.0	1573.2	1580.7
25°	1709.9	1704.8	1655.8	1559.2	1450.1	1379.6	1451.0	1486.5	1595.6	1660.5	1645.1
27.5°	1994.5	1990.3	1941.8	1821.9	1666.5	1537.3	1546.6	1580.2	1693.1	1757.1	1708.1
30°	2270.3	2271.7	2223.6	2100.4	1924.6	1738.4	1667.9	1687.5	1787.8	1852.7	1782.7
32.5°	2532.5	2534.3	2492.8	2355.2	2191.0	1972.1	1835.9	1830.8	1898.0	1961.9	1881.6
35°	2766.2	2770.9	2742.4	2635.6	2461.6	2232.5	2053.8	2041.7	2054.3	2126.6	2033.3
37.5°	2991.6	2994.4	2972.9	2882.9	2737.3	2518.5	2329.1	2311.8	2284.7	2340.3	2233.4
40°	3238.4	3231.4	3206.7	3125.0	3000.0	2834.3	2624.9	2595.0	2547.9	2597.3	2496.6
42.5°	3467.9	3460.0	3464.2	3371.8	3266.4	3159.1	2969.6	2918.3	2890.8	2947.7	2819.4
45°	3754.9	3750.7	3764.7	3684.4	3599.0	3521.1	3364.8	3308.8	3296.7	3363.4	3209.9
47.5°	4038.1	4048.3	4091.7	4057.7	4023.1	3954.5	3783.3	3758.1	3765.6	3846.3	3621.9
50°	4274.1	4286.3	4405.2	4444.4	4494.4	4454.2	4282.5	4267.1	4296.5	4369.3	4065.1
52.5°	4444.9	4469.6	4617.5	4798.1	4980.0	5007.1	4835.9	4821.9	4861.5	4872.7	4407.6
55°	4563.4	4585.3	4752.8	5083.1	5453.6	5570.2	5463.9	5409.7	5402.3	5291.7	4767.8
57.5°	4584.4	4582.1	4822.8	5267.4	5825.0	6125.9	6058.7	6005.5	5852.5	5678.9	5180.7
60°	4465.9	4479.4	4758.9	5331.4	6058.3	6546.3	6551.4	6482.4	6243.9	6055.5	5581.0
62.5°	4101.0	4156.1	4438.4	5163.9	6055.5	6715.6	6912.5	6859.8	6574.7	6363.8	5986.9
65°	3509.4	3529.0	3798.2	4590.0	5646.3	6644.7	7237.7	7218.1	6872.9	6663.4	6195.4
67.5°	2562.8	2520.3	2803.1	3614.4	4780.4	6231.3	7471.0	7495.7	7102.9	6725.0	5973.3
68°	2338.9	2351.5	2571.7	3373.2	4553.6	6085.3	7486.4	7524.2	7125.7	6684.8	5852.0
70°	1394.1	1418.3	1614.8	2322.5	3464.2	5259.0	7320.3	7406.6	6989.5	6271.0	5061.7
72.5°	356.0	384.9	570.6	1039.5	1978.7	3705.4	6179.6	6325.6	6068.5	5087.3	3417.1
75°	146.5	154.0	203.9	342.5	737.2	1669.3	4073.0	4385.6	4207.0	3045.7	1544.3
77.5°	101.2	106.4	131.1	189.9	319.1	565.9	1996.9	2222.7	2002.5	1039.5	336.9
80°	72.8	77.0	93.8	126.4	183.4	202.0	650.8	752.6	597.7	228.1	83.5
82.5°	43.4	46.7	70.0	90.0	111.5	96.6	161.9	183.8	173.1	113.4	37.3
85°	21.5	25.2	47.1	64.4	60.2	40.6	49.5	55.1	68.1	69.1	20.1
87.5°	1.4	2.8	27.5	38.7	16.8	9.3	14.5	17.7	24.3	34.1	8.4
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°	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5	1172.5
2.5°	1175.7	1176.2	1172.9	1171.5	1172.5	1166.9	1164.5	1165.5	1165.5	1166.9	1164.5
5°	1187.4	1187.4	1181.8	1174.3	1170.1	1159.4	1152.4	1150.5	1149.1	1148.2	1146.3
7.5°	1212.6	1209.8	1200.0	1183.7	1169.7	1146.3	1128.6	1119.3	1114.6	1112.7	1111.3
10°	1253.2	1248.0	1231.7	1201.4	1169.2	1127.7	1088.9	1061.4	1038.6	1029.2	1023.6
12.5°	1307.8	1300.3	1272.8	1222.4	1165.9	1089.4	1005.4	924.7	849.6	818.8	803.4
15°	1370.7	1360.0	1316.6	1240.1	1146.8	1003.1	820.7	679.3	575.3	536.1	519.3
17.5°	1434.7	1420.7	1354.9	1251.3	1089.4	824.4	575.7	434.8	365.3	346.7	340.1
20°	1499.1	1478.5	1388.0	1242.9	959.7	594.4	379.8	317.7	297.7	292.1	290.2
22.5°	1560.2	1528.4	1417.9	1210.3	760.0	398.9	300.5	280.9	274.3	271.1	270.1
25°	1613.4	1569.0	1444.0	1109.5	537.9	301.4	270.6	264.1	255.7	249.6	250.1
27.5°	1663.3	1609.6	1459.9	943.4	358.8	257.5	250.5	241.7	226.3	217.4	217.4
30°	1723.5	1663.7	1471.5	726.0	264.1	227.7	222.1	208.6	187.6	175.9	175.9
32.5°	1814.0	1745.9	1464.1	509.5	218.8	200.2	187.1	168.4	145.6	134.4	133.9
35°	1952.5	1872.8	1410.9	334.1	193.2	174.0	153.0	130.2	110.1	100.8	100.3
37.5°	2139.2	2042.6	1291.4	238.9	173.1	149.8	124.6	99.4	84.4	78.4	77.9
40°	2381.3	2239.9	1120.7	193.6	154.4	126.4	96.1	77.0	66.7	62.1	62.5
42.5°	2672.0	2451.3	915.9	167.0	136.2	104.0	75.1	60.7	54.1	50.9	49.9
45°	2994.8	2659.8	701.2	148.8	118.0	84.0	58.8	48.1	42.9	41.1	41.1
47.5°	3349.9	2862.8	513.2	133.0	98.4	64.9	47.1	39.2	35.0	33.6	33.1
50°	3672.3	3003.7	370.0	116.2	80.7	51.3	38.3	32.7	29.9	28.0	28.0
52.5°	3941.0	3048.0	272.5	98.0	65.3	41.1	31.7	28.0	25.2	23.8	23.8
55°	4177.6	3029.8	202.5	80.7	52.7	33.6	27.1	23.8	21.5	20.1	20.1
57.5°	4404.3	2971.0	151.2	65.8	42.5	27.1	22.9	20.1	17.7	16.8	16.8
60°	4589.5	2873.1	112.4	53.2	34.1	21.9	19.1	16.3	14.5	13.1	13.1
62.5°	4739.8	2764.8	82.6	43.9	27.1	17.3	14.9	13.5	10.7	9.3	9.3
65°	4740.7	2585.2	62.1	36.4	21.0	13.5	11.2	10.7	7.0	5.6	5.1
67.5°	4397.8	2228.7	47.6	31.3	16.3	10.3	8.4	8.9	3.7	2.3	1.9
68°	4273.2	2138.2	44.8	30.8	15.4	9.8	7.9	8.9	3.3	1.9	1.4
70°	3602.8	1701.1	35.9	29.9	13.5	7.5	6.5	8.9	2.8	1.4	0.9
72.5°	2304.3	987.2	26.6	23.8	10.3	5.6	4.2	7.9	2.8	0.9	0.5
75°	980.7	306.1	18.2	16.8	6.1	4.2	2.8	5.1	1.9	0.5	0.0
77.5°	206.7	69.1	10.7	10.3	4.2	2.8	1.9	1.4	0.5	0.0	0.0
80°	53.2	20.1	5.6	5.1	2.3	1.4	0.9	0.0	0.0	0.0	0.0
82.5°	16.8	7.9	3.3	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.4	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)