

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: P386405

Luminaire Tested: GAW-SA2A-735-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386405
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-SA2A-735-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9072.7 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

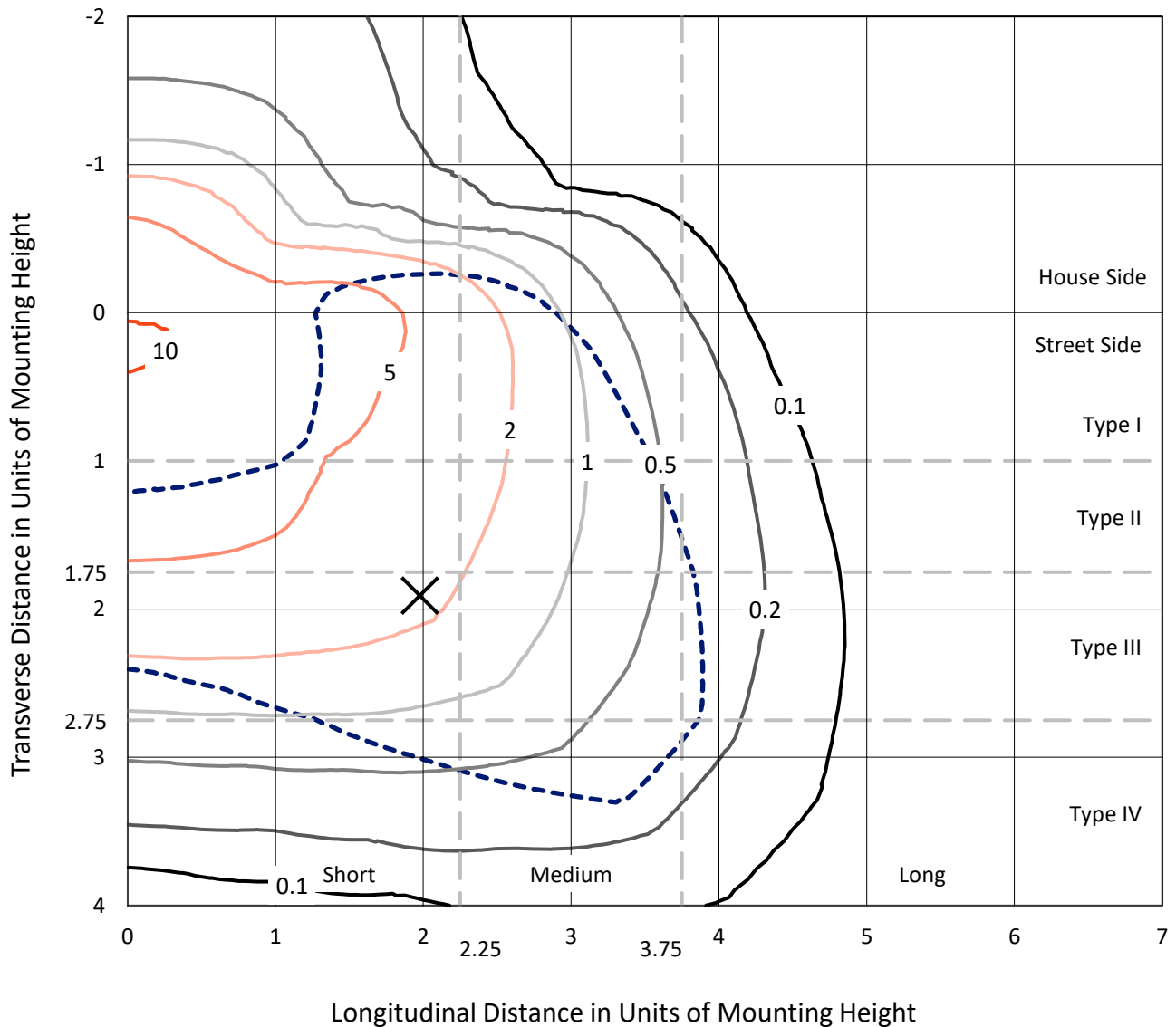
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

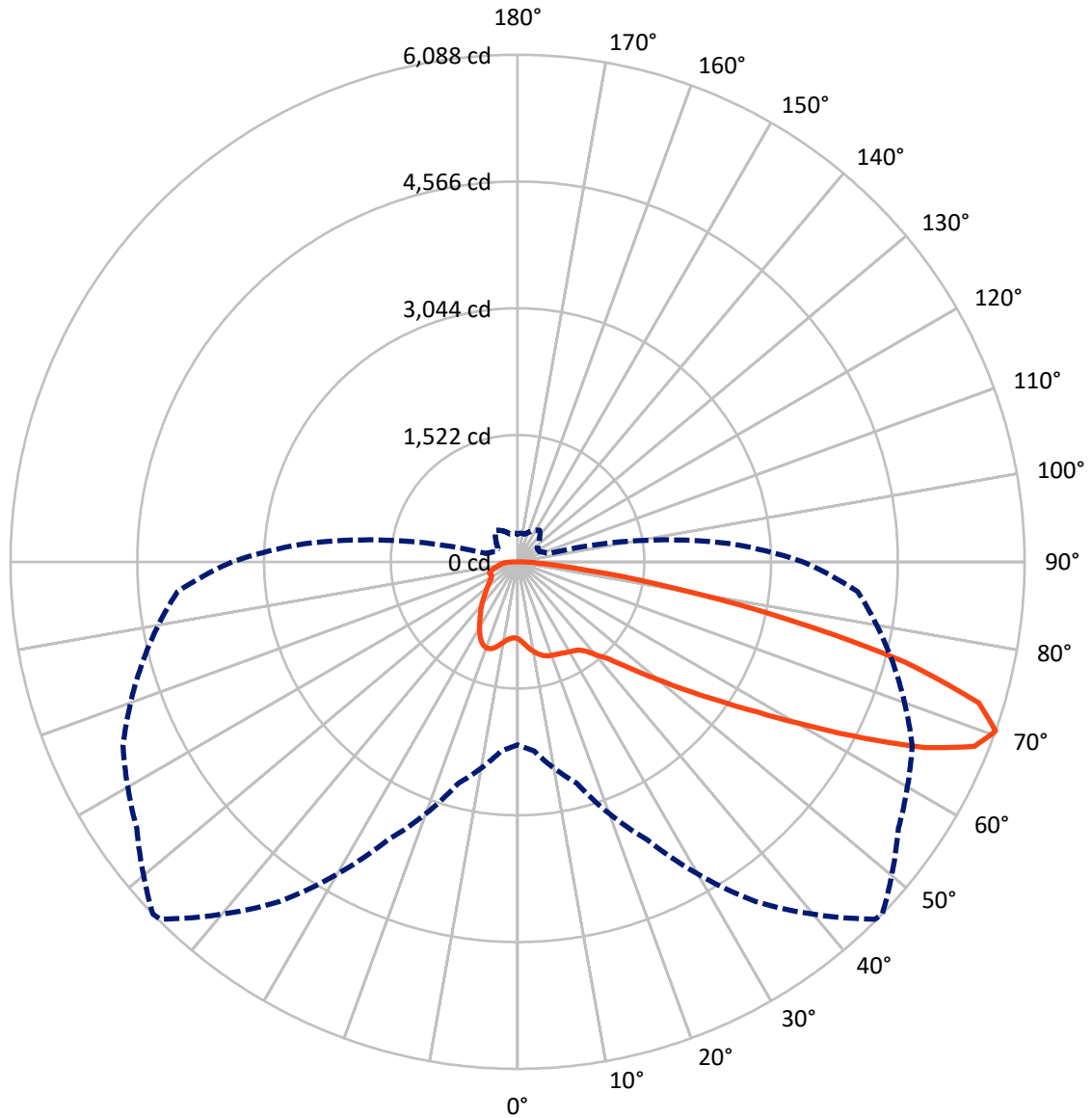
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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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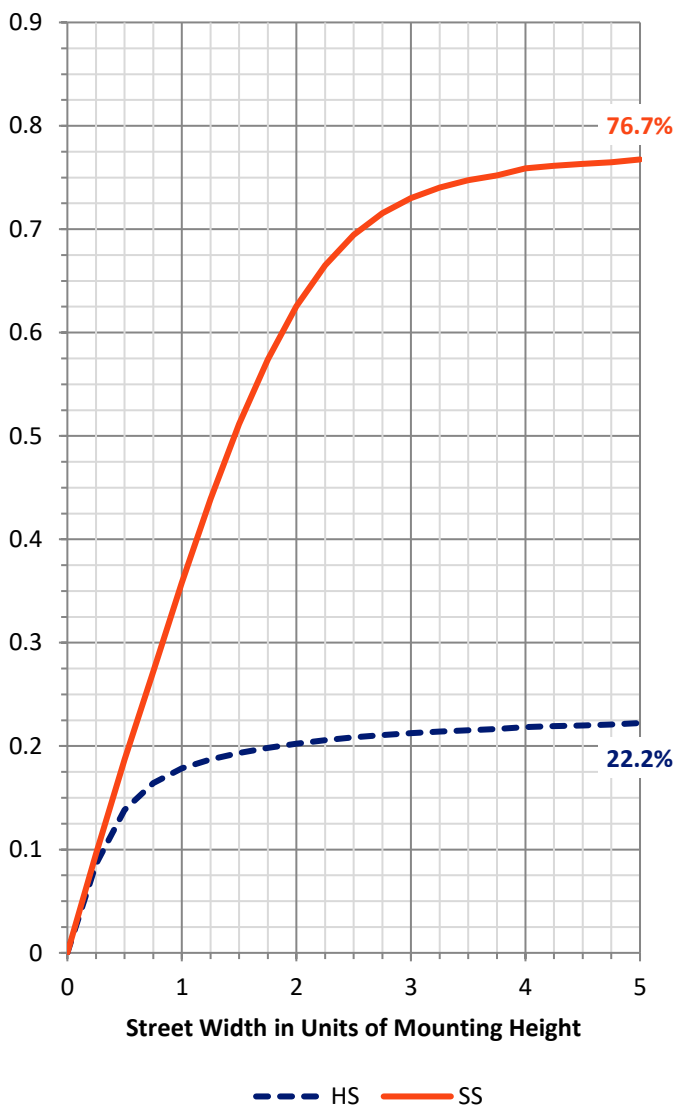
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2079.4	0.0	2079.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6993.2	0.0	6993.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	9072.7	0.0	9072.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	1.0
10°-20°	313.9	3.5
20°-30°	523.5	5.8
30°-40°	742.8	8.2
40°-50°	1092.6	12.0
50°-60°	1850.4	20.4
60°-70°	2626.6	29.0
70°-80°	1595.7	17.6
80°-90°	232.9	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°	9072.7	100.0
0°-180°	9072.7	100.0

Coefficient of Utilization



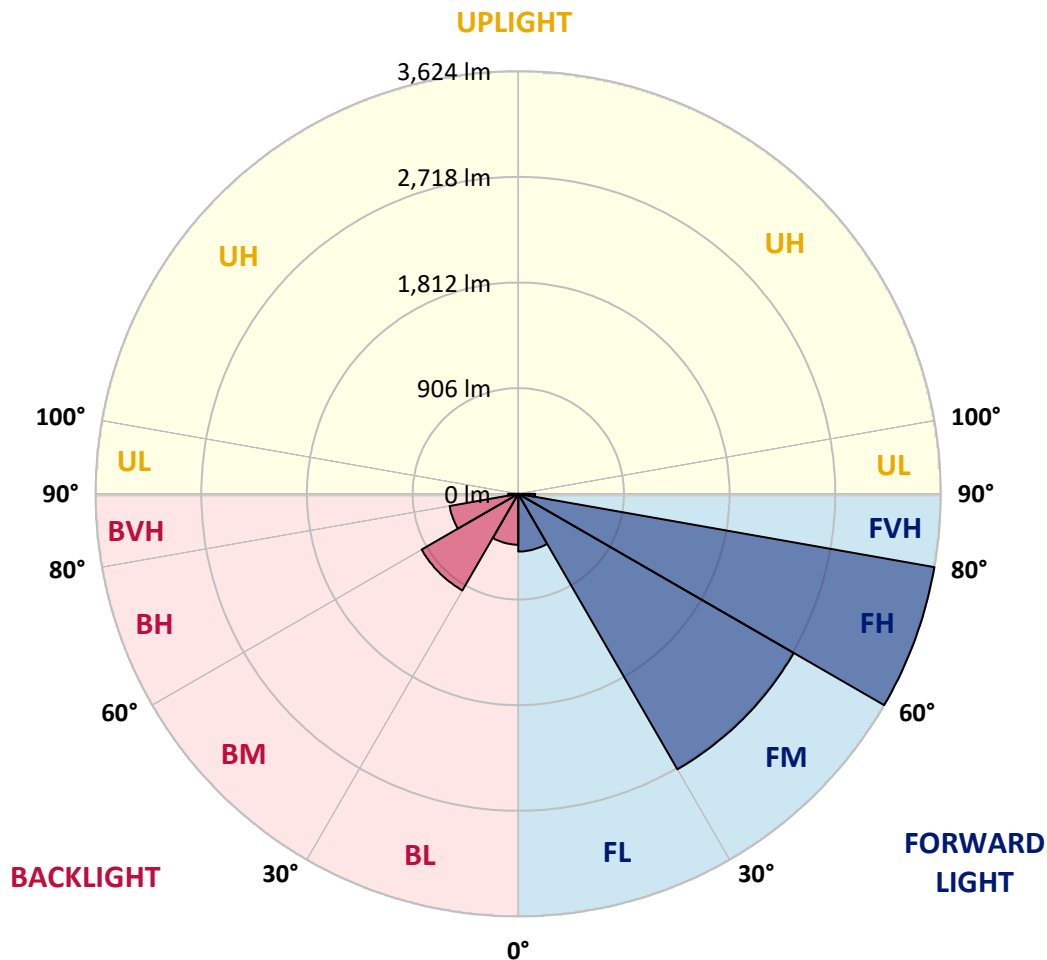
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.0	5.5			
FM (30°-60°)	2728.7	30.1			
FH (60°-80°)	3624.5	39.9			G2/5000
FVH (80°-90°)	145.1	1.6			G2/225
BL (0°-30°)	436.6	4.8	B1/500		
BM (30°-60°)	957.2	10.6	B1/1000		
BH (60°-80°)	597.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	87.8	1.0			G1/100
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°	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4
2.5°	970.6	971.2	972.5	969.4	960.6	958.2	957.2	948.2	942.3	933.7	926.1
5°	1048.2	1048.8	1047.0	1038.3	1019.1	1004.8	1003.5	983.0	964.4	944.5	929.6
7.5°	1129.2	1130.2	1124.3	1107.8	1080.8	1056.0	1054.4	1026.5	998.2	968.1	945.8
10°	1201.0	1197.3	1187.6	1164.7	1132.6	1102.2	1101.0	1071.8	1039.3	1002.9	973.1
12.5°	1248.8	1245.7	1233.2	1205.3	1170.2	1142.3	1139.8	1112.8	1081.1	1041.4	1005.7
15°	1275.1	1277.4	1260.6	1228.9	1194.7	1171.1	1169.0	1149.7	1121.4	1081.4	1040.5
17.5°	1278.6	1280.5	1264.3	1233.0	1205.1	1188.9	1188.0	1175.2	1154.7	1116.2	1073.4
20°	1258.7	1260.0	1246.6	1220.8	1202.5	1197.5	1197.3	1191.6	1176.4	1142.3	1100.7
22.5°	1229.9	1230.8	1221.1	1202.5	1196.3	1204.1	1206.3	1204.1	1193.2	1161.2	1122.1
25°	1222.7	1222.1	1212.2	1193.2	1198.5	1214.9	1217.7	1218.7	1211.3	1183.3	1149.4
27.5°	1257.2	1255.0	1236.1	1205.6	1209.0	1228.9	1232.7	1241.7	1237.0	1212.5	1180.4
30°	1356.9	1353.1	1314.3	1252.9	1236.1	1246.3	1251.0	1265.3	1266.2	1245.7	1221.8
32.5°	1525.1	1520.5	1450.9	1341.0	1281.7	1264.0	1268.4	1289.8	1301.2	1285.5	1259.6
35°	1737.8	1732.5	1641.2	1491.0	1358.1	1297.9	1301.0	1318.1	1341.0	1318.6	1284.5
37.5°	1959.5	1946.8	1858.9	1667.3	1479.5	1370.2	1370.2	1372.4	1383.3	1336.7	1313.6
40°	2180.0	2167.2	2087.7	1874.7	1636.6	1484.1	1477.0	1428.9	1420.2	1380.2	1372.4
42.5°	2384.8	2381.2	2334.3	2109.1	1821.0	1596.2	1586.3	1504.6	1506.5	1481.6	1482.0
45°	2602.9	2602.9	2564.6	2345.8	2035.9	1776.3	1766.3	1646.2	1664.9	1653.3	1681.0
47.5°	2780.7	2786.3	2781.1	2592.3	2285.8	2005.1	1987.1	1842.4	1894.6	1934.0	2014.4
50°	2962.4	2971.1	2972.0	2862.7	2587.9	2277.1	2256.6	2102.9	2219.4	2332.4	2490.4
52.5°	3226.0	3245.5	3167.6	3132.5	2958.1	2600.1	2579.9	2438.0	2632.4	2791.0	3063.3
55°	3470.3	3453.3	3397.7	3419.4	3354.2	2967.6	2952.4	2828.0	3092.5	3298.7	3652.3
57.5°	3602.6	3601.4	3657.2	3750.4	3781.4	3421.0	3408.2	3287.1	3611.3	3766.2	4205.3
60°	3757.9	3760.0	3898.5	4109.9	4237.9	3985.5	3979.8	3888.0	4115.2	4202.8	4639.0
62.5°	3779.6	3818.7	4057.1	4421.1	4665.1	4644.9	4657.3	4429.1	4566.0	4551.2	4962.8
65°	3529.7	3581.2	4012.8	4515.1	5089.8	5366.2	5377.7	4973.4	4921.6	4848.9	5078.6
67.5°	3017.3	3093.7	3562.6	4310.5	5229.9	5899.3	5915.5	5395.4	5216.5	4949.9	4799.8
70°	2195.7	2280.6	2752.5	3681.5	4980.3	6069.8	6088.1	5582.0	5227.7	4662.6	4097.5
72.5°	1326.4	1392.8	1781.9	2710.2	4203.4	5759.2	5791.8	5345.4	4772.9	3949.4	3025.7
75°	582.5	625.9	861.6	1561.7	3009.3	4765.1	4805.8	4575.4	3878.0	2870.1	1788.4
77.5°	248.1	260.5	353.3	678.4	1701.1	3256.1	3312.0	3343.0	2631.1	1561.7	755.7
80°	154.6	159.6	200.0	307.1	796.1	1828.8	1889.0	1967.0	1306.5	574.1	263.9
82.5°	94.0	99.7	132.9	185.7	414.5	829.0	857.9	912.8	507.0	248.1	136.6
85°	56.6	60.6	81.4	117.3	236.0	326.0	325.7	360.2	238.8	159.6	72.1
87.5°	27.1	30.2	43.5	60.9	118.9	122.3	114.6	129.8	145.0	104.6	36.4
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°	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4
2.5°	923.7	922.5	918.4	915.3	914.7	912.8	911.3	912.2	913.5	913.7	913.7
5°	923.4	919.9	914.7	912.5	915.3	919.0	923.7	929.9	933.7	936.5	938.3
7.5°	938.3	931.8	925.9	924.6	930.2	940.1	950.8	963.7	972.7	978.9	980.3
10°	963.2	955.1	949.2	950.4	960.3	974.6	989.6	1006.3	1020.0	1028.4	1028.9
12.5°	991.7	983.9	978.4	983.6	1000.1	1017.5	1033.0	1047.6	1060.0	1068.4	1068.4
15°	1024.6	1019.1	1012.5	1024.6	1047.0	1062.5	1069.0	1076.2	1083.0	1089.2	1087.9
17.5°	1056.3	1051.0	1047.6	1061.9	1085.2	1092.3	1087.9	1082.7	1082.7	1086.1	1086.7
20°	1083.6	1079.0	1081.1	1095.1	1107.2	1099.7	1083.6	1066.9	1060.0	1061.9	1063.8
22.5°	1107.5	1105.4	1111.9	1118.3	1109.7	1083.6	1053.8	1031.2	1022.7	1022.2	1022.7
25°	1135.4	1135.2	1143.2	1131.4	1092.9	1044.8	1004.8	982.7	978.0	981.8	988.0
27.5°	1170.2	1173.7	1177.7	1134.5	1058.8	986.1	945.4	930.2	934.9	943.9	949.8
30°	1214.6	1223.9	1215.3	1126.8	1009.8	919.0	880.2	875.9	888.7	901.3	907.5
32.5°	1257.8	1272.4	1251.3	1106.6	946.3	848.0	817.8	816.6	832.1	844.5	853.3
35°	1292.6	1321.4	1278.3	1066.5	873.1	782.4	760.3	752.0	757.6	772.2	782.1
37.5°	1337.9	1386.0	1296.9	1005.3	793.6	728.4	702.7	683.4	678.4	684.3	689.3
40°	1420.8	1484.4	1305.6	919.9	716.0	674.4	648.3	620.1	600.5	586.2	586.6
42.5°	1556.2	1612.7	1300.0	816.2	644.2	621.6	592.1	559.5	527.8	495.5	493.1
45°	1776.0	1803.4	1283.2	706.3	581.2	566.4	538.7	506.1	463.9	427.2	423.9
47.5°	2127.8	2067.2	1257.2	610.4	525.7	519.5	494.0	456.5	411.7	382.2	379.7
50°	2607.5	2448.2	1244.4	534.0	476.6	478.4	457.7	417.9	375.7	354.0	351.4
52.5°	3181.3	2891.9	1268.9	475.1	437.2	443.7	428.2	390.9	355.5	338.5	335.9
55°	3776.5	3351.4	1295.3	432.2	399.9	412.7	407.3	376.6	344.7	328.8	326.6
57.5°	4286.0	3694.5	1242.5	397.5	366.6	386.6	391.3	367.6	339.0	324.7	322.3
60°	4606.7	3832.7	1104.1	364.9	340.3	365.8	381.9	365.1	341.2	340.0	338.1
62.5°	4758.9	3820.6	896.4	339.0	323.8	356.8	388.7	379.1	366.1	377.3	378.2
65°	4690.6	3638.0	667.5	322.0	312.1	360.2	409.2	405.5	373.2	384.4	385.9
67.5°	4241.0	3202.4	494.3	307.1	299.0	369.8	446.5	414.2	359.2	367.3	362.3
70°	3427.8	2538.9	381.3	290.3	285.7	368.5	463.2	408.9	344.0	345.9	332.5
72.5°	2363.8	1731.3	310.2	274.8	266.4	335.9	451.5	395.9	331.3	317.0	299.3
75°	1285.5	929.2	263.6	258.6	232.6	295.0	429.7	386.6	319.8	300.9	290.9
77.5°	505.8	385.6	228.8	236.6	203.4	260.5	405.5	368.9	304.0	279.1	274.2
80°	206.5	196.9	189.7	204.6	174.8	227.9	376.3	348.0	285.0	259.0	249.0
82.5°	117.0	122.3	147.5	161.5	141.8	209.9	362.3	331.3	262.4	231.9	220.1
85°	59.9	71.8	102.8	115.8	104.4	178.5	333.8	290.0	210.5	177.6	178.5
87.5°	28.8	40.0	64.9	72.6	67.7	129.2	249.3	210.2	163.9	129.8	125.8
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)