

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: P386179

Luminaire Tested: GAW-SA1D-735-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-735-U-T4FT
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7831.7 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

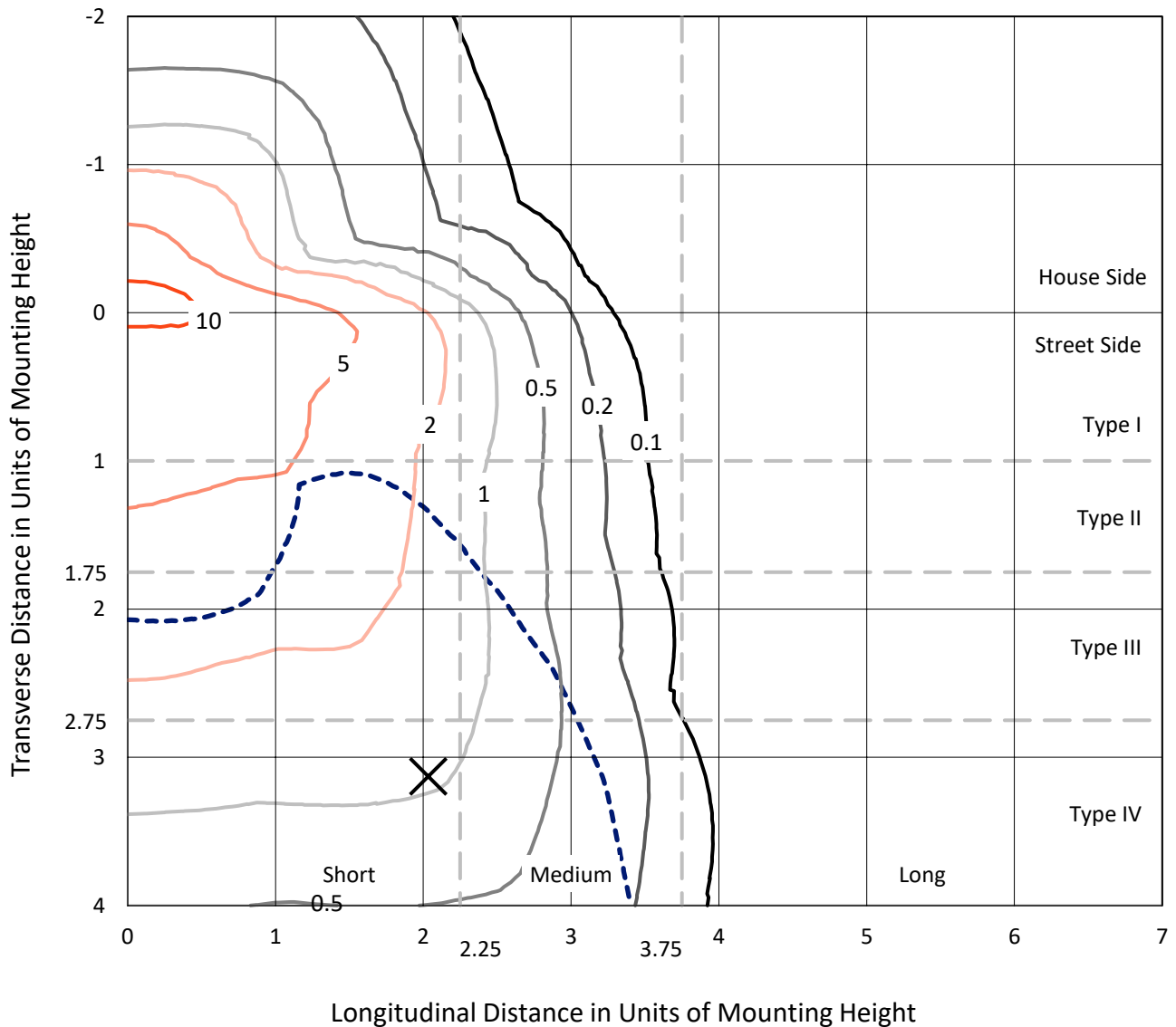
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

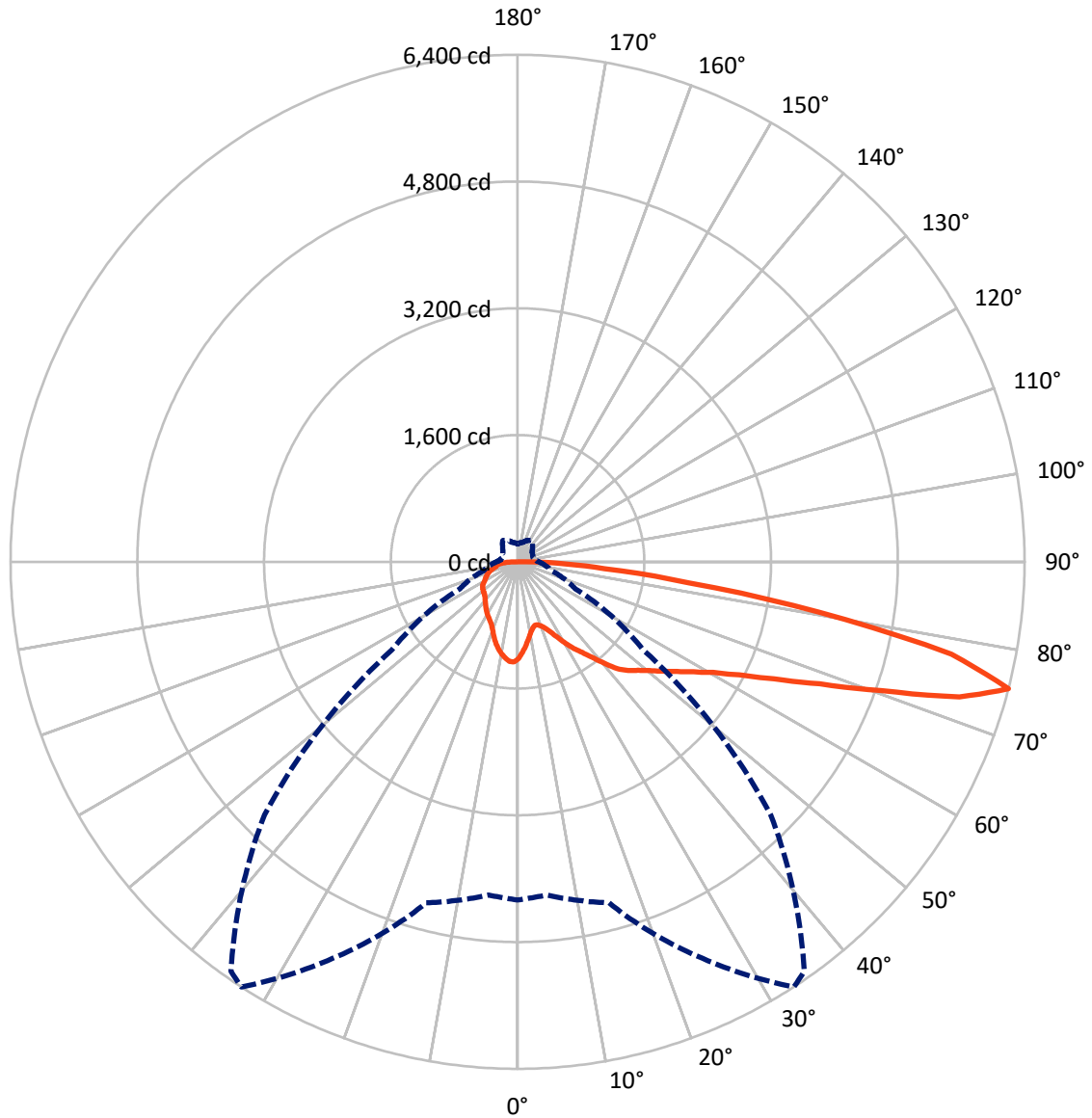
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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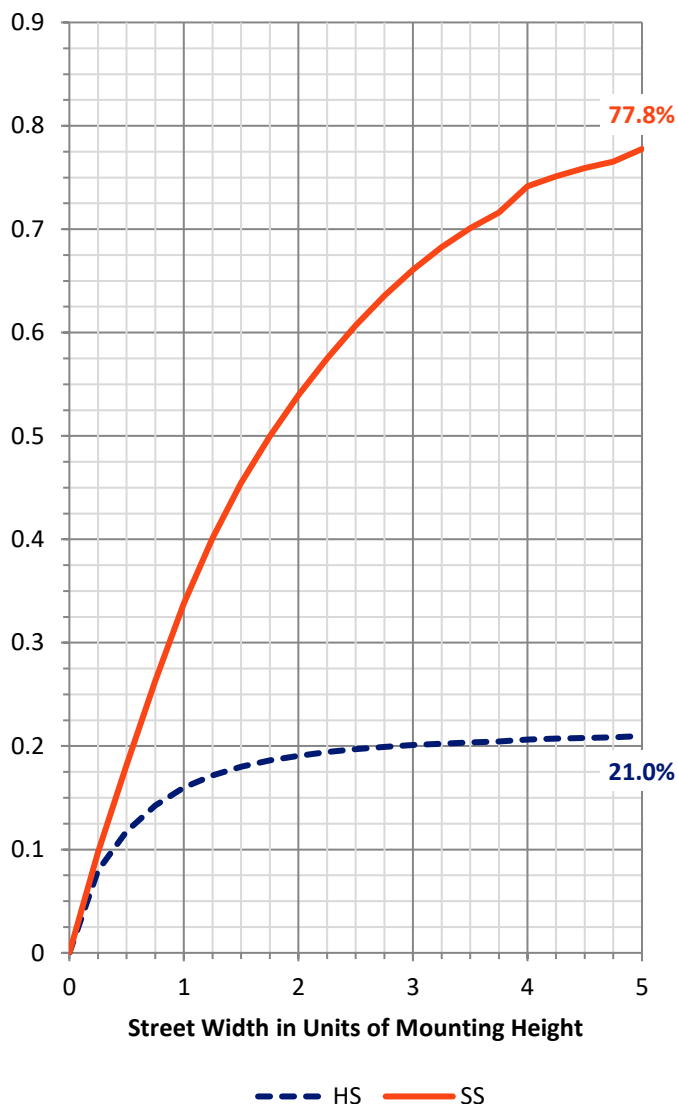
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1681.7	0.0	1681.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6150.0	0.0	6150.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	7831.7	0.0	7831.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	1.4
10°-20°	299.8	3.8
20°-30°	489.7	6.3
30°-40°	729.3	9.3
40°-50°	1046.0	13.4
50°-60°	1436.0	18.3
60°-70°	1797.7	23.0
70°-80°	1626.3	20.8
80°-90°	296.2	3.8
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°	7831.7	100.0
0°-180°	7831.7	100.0

Coefficient of Utilization

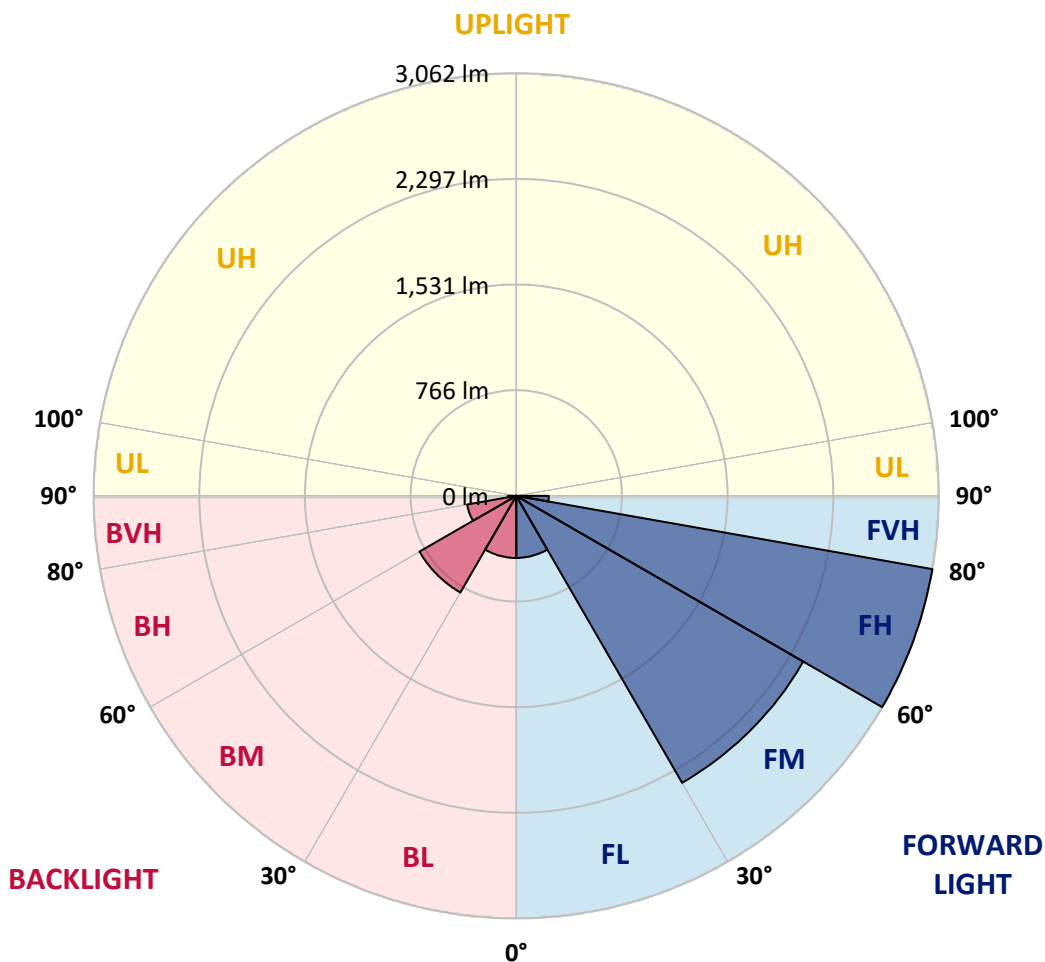


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.8	5.7			
FM (30°-60°)	2401.8	30.7			
FH (60°-80°)	3062.5	39.1			G2/5000
FVH (80°-90°)	235.9	3.0			G3/500
BL (0°-30°)	450.4	5.8	B1/500		
BM (30°-60°)	809.4	10.3	B1/1000		
BH (60°-80°)	361.6	4.6	B1/500		G1/500
BVH (80°-90°)	60.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1136.8	1132.4	1140.5	1141.6	1148.7	1151.4	1161.1	1176.2	1188.7	1203.1	1216.0
5°	1033.7	1030.7	1042.1	1050.1	1065.6	1072.1	1095.1	1127.3	1155.9	1188.4	1217.9
7.5°	935.7	934.1	946.8	965.2	983.1	992.0	1031.8	1078.6	1126.5	1178.9	1224.1
10°	853.3	852.7	864.9	883.0	909.2	919.3	970.7	1032.3	1099.5	1171.7	1234.7
12.5°	807.0	808.9	814.5	829.7	854.1	864.1	921.2	993.7	1076.7	1169.3	1250.1
15°	818.3	821.3	811.5	811.1	828.4	836.2	889.8	966.1	1060.5	1173.3	1272.6
17.5°	866.8	867.3	841.6	825.4	836.0	840.0	880.0	950.4	1051.0	1182.5	1300.7
20°	935.0	933.6	888.1	861.0	866.8	867.8	893.8	950.7	1050.1	1198.5	1337.2
22.5°	1025.3	1015.3	954.1	917.3	916.0	914.4	929.2	970.7	1062.1	1224.4	1380.8
25°	1143.2	1133.8	1049.7	999.3	988.5	984.5	986.6	1013.4	1085.7	1252.3	1429.5
27.5°	1274.5	1257.9	1176.8	1105.7	1083.2	1077.5	1064.5	1073.7	1111.3	1279.1	1487.3
30°	1384.3	1375.4	1304.5	1220.1	1193.6	1185.4	1151.4	1141.4	1148.4	1315.6	1560.4
32.5°	1445.7	1439.7	1396.8	1328.6	1304.0	1292.6	1244.4	1224.4	1207.9	1373.2	1659.4
35°	1520.1	1516.3	1490.3	1440.8	1404.3	1392.4	1355.1	1334.2	1291.8	1452.5	1787.4
37.5°	1614.8	1610.7	1611.2	1571.2	1527.6	1516.6	1491.9	1470.1	1400.5	1556.7	1926.4
40°	1721.9	1714.1	1711.1	1709.2	1681.6	1675.4	1662.4	1632.7	1536.8	1681.0	2063.6
42.5°	1883.1	1855.3	1795.7	1818.2	1845.5	1842.3	1852.9	1810.1	1688.4	1828.2	2197.5
45°	2038.7	1993.0	1890.2	1895.0	1954.9	1973.0	2051.9	2021.7	1852.6	1989.4	2336.0
47.5°	2109.6	2074.9	1987.6	1987.9	2047.1	2084.7	2257.8	2236.2	2025.1	2172.6	2505.1
50°	2188.9	2154.2	2075.8	2105.3	2156.9	2197.0	2456.7	2445.6	2189.4	2373.1	2707.7
52.5°	2275.4	2216.7	2166.9	2219.7	2292.2	2338.7	2655.8	2625.5	2340.0	2574.9	2940.7
55°	2276.5	2260.6	2298.4	2337.1	2445.6	2502.6	2864.4	2784.3	2462.9	2773.2	3130.2
57.5°	2406.1	2380.1	2460.5	2478.3	2620.1	2684.4	3071.8	2922.5	2587.8	2925.3	3232.5
60°	2577.6	2555.4	2621.2	2668.3	2835.9	2922.0	3293.4	3064.6	2686.1	3040.0	3227.7
62.5°	2873.8	2848.7	2847.9	2913.9	3139.7	3239.9	3542.1	3203.9	2725.0	3062.6	3089.9
65°	3307.5	3267.5	3192.0	3223.3	3559.4	3659.1	3819.9	3304.8	2673.6	2941.0	2735.3
67.5°	3729.5	3728.2	3635.4	3699.7	4113.4	4193.5	4136.3	3314.7	2513.3	2517.0	2106.0
70°	4150.1	4155.6	4139.9	4363.9	4861.9	4945.3	4473.5	3180.3	2152.6	1817.7	1261.7
72.5°	4483.4	4482.1	4561.1	5138.7	5833.4	5814.8	4757.6	2772.9	1545.5	981.2	603.0
75°	4267.6	4220.5	4455.9	5522.3	6399.6	6308.5	4515.9	1934.3	802.1	446.7	324.7
77.5°	2783.4	2828.1	3173.6	4561.9	5597.8	5486.9	3313.1	902.5	377.9	293.0	235.3
80°	1008.0	1055.0	1486.0	2584.1	3856.7	3838.6	1631.5	370.9	255.6	221.3	171.5
82.5°	346.8	364.1	586.3	1147.6	2177.5	2258.7	613.8	210.7	185.8	156.9	117.4
85°	136.1	155.8	268.1	552.2	1098.3	1106.4	248.7	126.1	129.4	102.8	64.3
87.5°	51.7	62.8	128.2	256.5	501.5	460.7	89.0	60.0	73.6	61.2	30.5
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°	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1226.0	1231.7	1243.7	1251.7	1260.4	1262.8	1264.0	1266.1	1268.3	1267.4	1267.7
5°	1233.6	1244.7	1264.0	1272.0	1275.8	1271.5	1263.1	1256.3	1251.5	1248.7	1248.0
7.5°	1246.0	1261.7	1282.3	1281.0	1272.3	1253.1	1231.5	1215.2	1201.7	1196.8	1194.2
10°	1262.5	1281.0	1295.3	1279.8	1254.7	1221.4	1189.0	1163.8	1143.5	1135.6	1134.3
12.5°	1283.7	1302.3	1305.0	1272.3	1230.6	1185.2	1141.1	1107.8	1077.5	1067.8	1065.6
15°	1311.0	1328.6	1311.8	1259.1	1200.9	1139.8	1082.7	1037.5	1005.5	993.7	989.4
17.5°	1339.7	1356.4	1313.2	1237.1	1161.9	1085.9	1014.2	968.0	931.4	917.6	916.0
20°	1374.1	1381.6	1307.4	1205.7	1108.4	1016.1	940.6	897.0	877.6	867.8	866.8
22.5°	1416.5	1408.3	1294.5	1163.3	1040.5	935.4	874.1	853.8	848.9	846.8	847.5
25°	1461.4	1436.5	1275.2	1107.8	954.7	854.8	825.4	831.1	837.6	836.7	836.7
27.5°	1510.9	1465.2	1245.8	1034.3	859.7	788.9	792.4	813.2	822.9	822.7	822.4
30°	1574.5	1497.7	1208.2	945.8	771.0	742.3	763.7	789.1	802.4	801.9	802.1
32.5°	1652.7	1533.4	1157.1	847.1	706.9	707.9	732.6	757.7	773.2	771.8	772.1
35°	1744.1	1573.4	1087.8	749.6	664.4	680.7	700.1	717.7	732.4	730.5	728.5
37.5°	1843.7	1612.7	995.9	662.6	629.8	655.2	671.5	674.4	681.2	676.4	672.8
40°	1938.3	1642.6	877.3	591.1	594.9	633.6	644.1	632.2	620.1	618.4	613.5
42.5°	2020.8	1652.7	757.5	534.0	558.1	610.9	617.4	592.5	570.6	560.3	555.9
45°	2108.0	1656.2	645.7	486.1	522.7	590.6	597.6	564.3	533.5	511.3	504.0
47.5°	2221.9	1681.6	558.9	450.7	495.6	577.1	587.0	541.8	501.8	470.2	463.4
50°	2370.9	1732.0	488.3	423.7	478.1	568.1	579.5	520.0	475.9	437.8	431.0
52.5°	2536.5	1778.2	431.2	401.8	461.0	552.5	569.7	504.3	451.5	407.7	400.4
55°	2652.3	1742.8	385.2	379.0	438.8	530.0	556.2	491.0	416.6	378.5	372.0
57.5°	2674.5	1621.6	350.3	355.5	412.0	501.8	535.4	461.5	397.6	365.8	359.0
60°	2613.9	1452.8	324.4	333.9	383.4	466.4	496.4	440.7	379.5	352.3	346.5
62.5°	2461.6	1279.8	305.1	314.3	356.6	430.4	472.0	418.8	361.2	336.8	331.1
65°	2153.9	1074.6	286.8	297.0	331.7	399.3	450.2	398.5	343.1	324.4	318.9
67.5°	1625.9	804.8	269.4	278.6	309.5	372.3	426.4	378.5	325.4	313.6	307.1
70°	957.4	504.0	249.7	259.5	286.2	344.1	400.9	356.6	303.5	298.2	289.7
72.5°	445.6	303.2	227.2	236.7	257.0	306.5	368.1	327.8	277.6	265.7	254.3
75°	265.9	221.8	200.7	209.1	223.5	266.5	327.1	298.6	253.0	237.3	225.4
77.5°	198.9	169.7	171.5	180.5	192.1	233.2	289.7	275.7	234.0	221.8	213.7
80°	143.1	128.8	139.9	149.6	161.8	212.1	277.6	254.9	211.6	195.3	187.8
82.5°	95.5	92.5	105.2	115.3	127.2	185.6	260.8	223.2	180.7	160.2	143.4
85°	52.8	55.7	70.9	75.2	85.5	130.7	213.7	179.3	136.1	109.5	104.6
87.5°	21.9	25.7	38.1	36.8	45.5	77.9	140.7	108.2	86.6	64.6	50.4
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)