

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: P387076

Luminaire Tested: GAW-SA2D-735-U-T4W-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-735-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11025.7 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

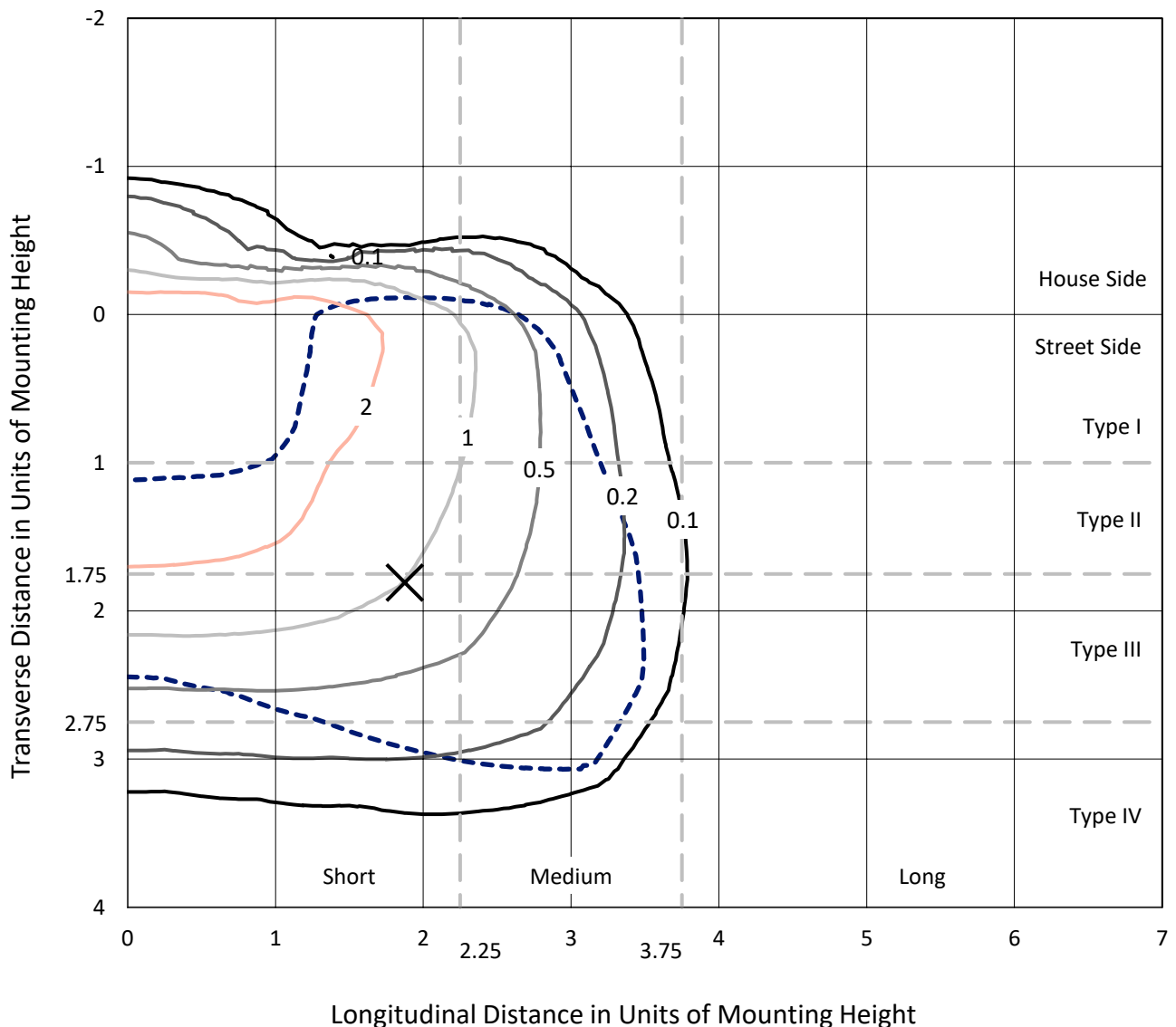
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

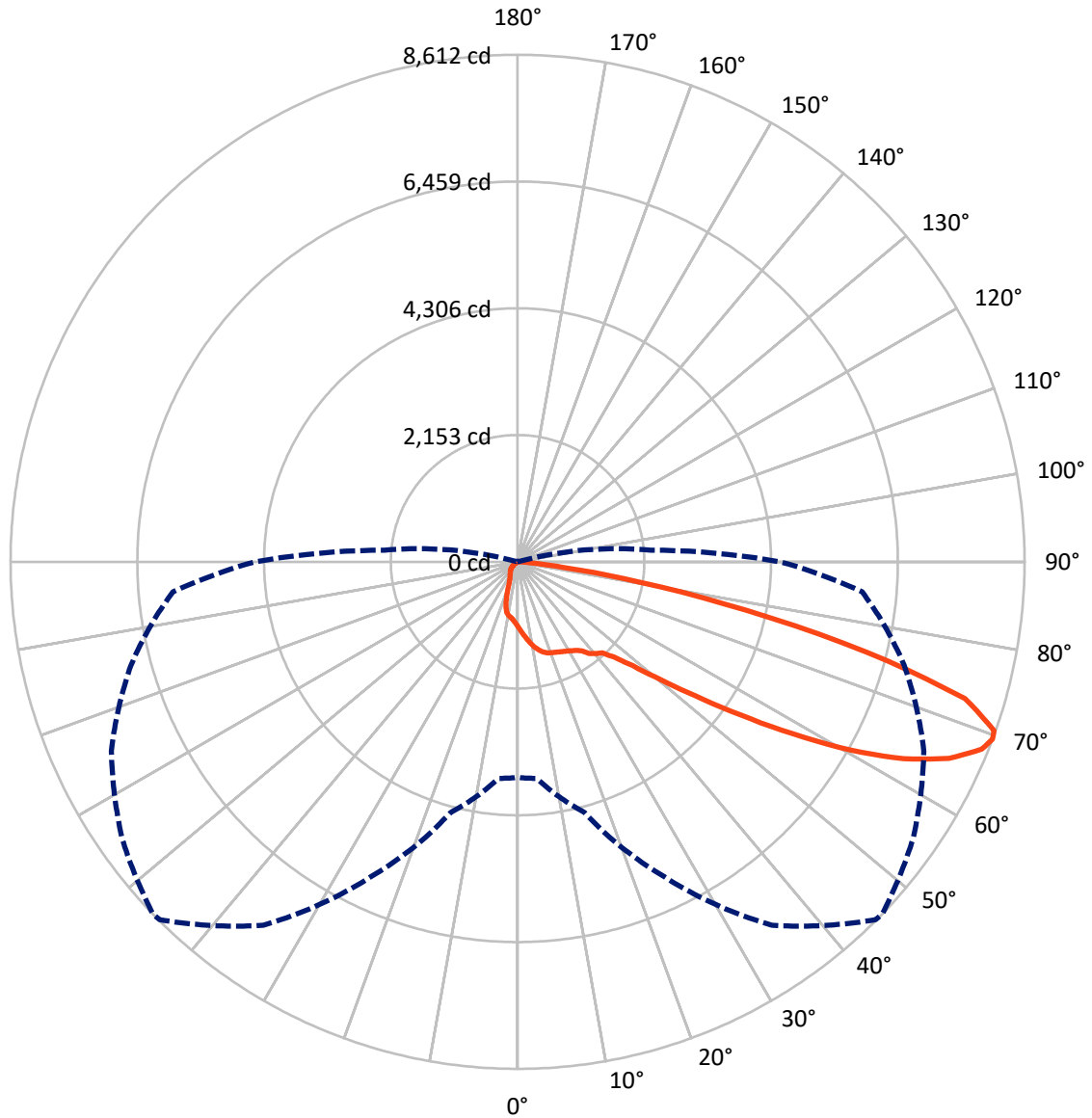
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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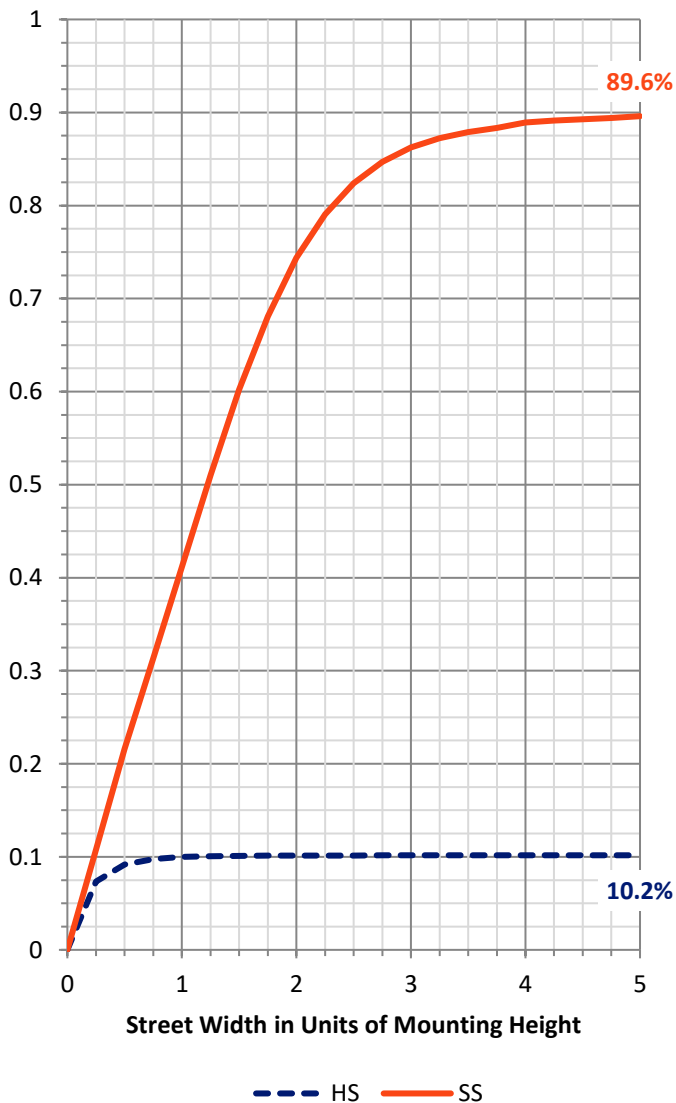
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1131.6	0.0	1131.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9894.1	0.0	9894.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	11025.7	0.0	11025.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	1.0
10°-20°	333.6	3.0
20°-30°	524.6	4.8
30°-40°	752.3	6.8
40°-50°	1300.3	11.8
50°-60°	2568.8	23.3
60°-70°	3590.2	32.6
70°-80°	1734.4	15.7
80°-90°	111.5	1.0
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°	11025.7	100.0
0°-180°	11025.7	100.0

Coefficient of Utilization



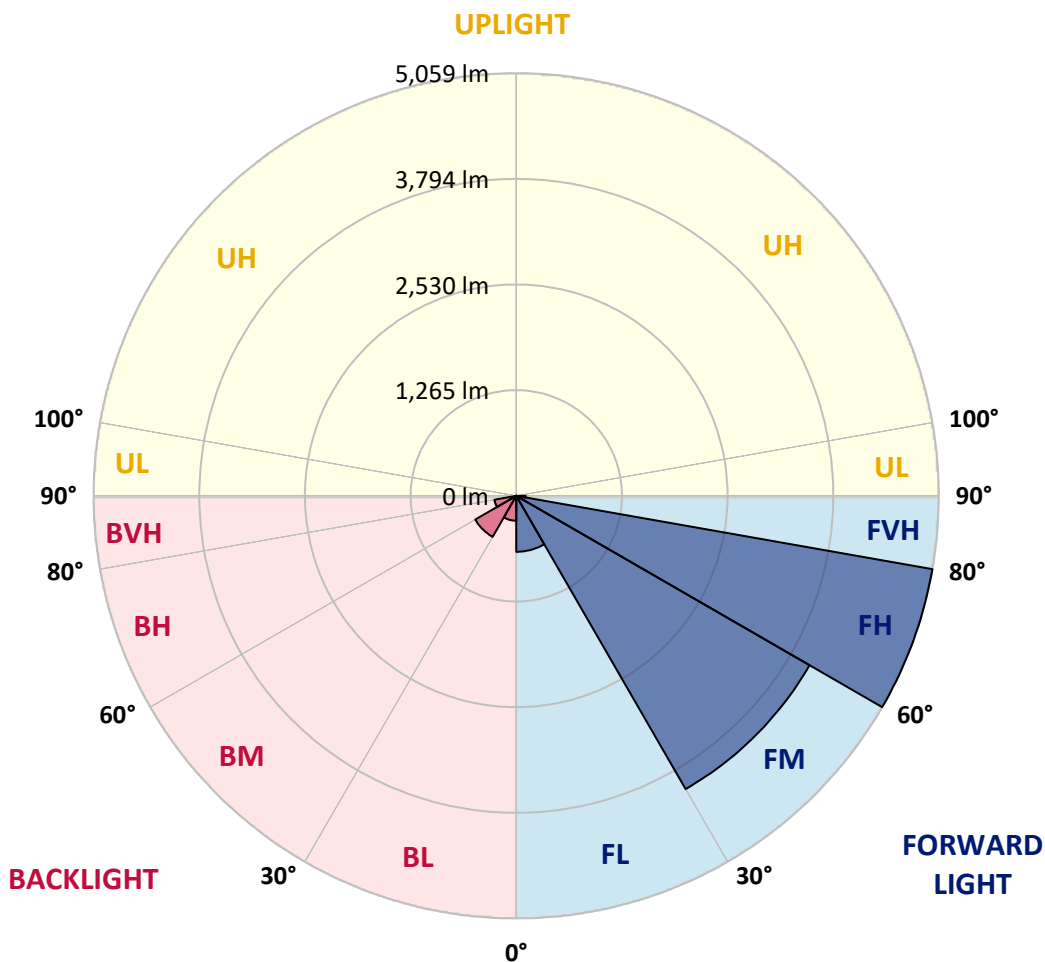
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.9	6.1			
FM (30°-60°)	4054.4	36.8			
FH (60°-80°)	5059.3	45.9			G3/7500
FVH (80°-90°)	110.6	1.0			G2/225
BL (0°-30°)	298.2	2.7	B1/500		
BM (30°-60°)	567.0	5.1	B1/1000		
BH (60°-80°)	265.3	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7
2.5°	1227.2	1225.7	1218.5	1215.4	1197.8	1187.5	1183.4	1170.4	1151.8	1133.2	1112.5
5°	1366.8	1366.3	1352.9	1340.0	1306.9	1275.9	1270.2	1240.2	1198.3	1159.0	1119.8
7.5°	1509.5	1502.7	1489.3	1464.5	1416.4	1366.8	1362.2	1319.8	1260.3	1203.5	1147.1
10°	1630.5	1626.4	1608.8	1571.0	1514.7	1458.3	1452.7	1400.4	1333.2	1263.4	1191.6
12.5°	1724.5	1721.4	1698.2	1651.2	1591.1	1532.8	1525.0	1478.5	1406.6	1328.6	1243.8
15°	1781.9	1780.4	1752.0	1701.8	1642.9	1592.2	1585.5	1544.6	1477.9	1396.3	1300.7
17.5°	1795.4	1795.9	1766.4	1715.8	1667.1	1631.0	1625.8	1594.8	1539.0	1457.8	1357.5
20°	1765.4	1771.6	1745.2	1701.3	1671.3	1652.2	1648.1	1629.5	1582.4	1505.8	1403.0
22.5°	1723.0	1726.1	1708.0	1678.5	1666.1	1669.8	1667.7	1657.4	1617.5	1547.3	1448.0
25°	1697.2	1697.2	1686.3	1661.5	1669.8	1692.0	1692.5	1690.4	1658.9	1597.9	1502.7
27.5°	1696.2	1693.1	1680.6	1662.0	1684.7	1718.9	1721.0	1734.9	1715.2	1659.4	1571.0
30°	1737.5	1733.8	1707.5	1683.2	1712.1	1748.9	1754.0	1784.6	1774.7	1726.1	1647.0
32.5°	1834.2	1821.2	1762.8	1723.0	1744.7	1788.7	1795.4	1843.9	1859.5	1808.3	1720.4
35°	1966.5	1925.7	1841.4	1798.5	1800.5	1846.6	1852.8	1924.1	1970.1	1883.8	1777.3
37.5°	2149.0	2128.9	1991.8	1877.1	1886.4	1956.2	1974.2	2051.8	2038.9	1925.1	1841.9
40°	2549.1	2517.6	2371.8	2097.3	1968.6	2045.1	2050.8	2092.1	2093.2	2018.7	1976.3
42.5°	3094.0	3081.0	2927.5	2496.9	2130.4	2104.5	2114.9	2184.7	2262.7	2216.2	2214.2
45°	3697.3	3690.5	3527.7	3027.3	2457.6	2299.4	2312.3	2405.9	2555.3	2565.7	2631.3
47.5°	4182.7	4179.6	4086.0	3619.2	2958.5	2629.7	2633.9	2733.2	2995.7	3125.5	3230.5
50°	4625.2	4640.1	4566.3	4259.7	3640.9	3147.3	3137.4	3203.5	3625.4	3837.9	3968.1
52.5°	5240.4	5261.5	5054.2	4857.3	4356.9	3789.2	3781.5	3850.8	4382.2	4541.4	4564.7
55°	5783.7	5747.5	5583.7	5526.7	5230.0	4582.3	4580.2	4641.2	5114.2	5182.0	5224.8
57.5°	6023.6	6009.6	6088.7	6219.0	6144.5	5519.5	5514.9	5468.3	5769.2	5776.4	5908.2
60°	6175.0	6192.1	6434.6	6836.2	7021.8	6528.1	6498.1	6214.3	6394.7	6378.7	6519.9
62.5°	6061.3	6094.9	6531.2	7200.6	7678.3	7408.4	7366.1	6897.7	6929.3	6873.9	7005.2
65°	5457.5	5509.7	6224.6	7131.9	8004.0	8096.5	8053.6	7501.0	7353.7	7262.6	7189.8
67.5°	4431.3	4462.3	5208.8	6533.8	7857.2	8507.0	8498.2	8029.8	7674.2	7197.1	6631.5
69°	3662.1	3692.6	4411.2	5904.1	7534.1	8594.9	8611.9	8199.4	7613.2	6797.9	5875.7
70°	3101.7	3134.3	3803.8	5364.4	7159.3	8554.0	8584.6	8183.3	7438.5	6335.7	5212.4
72.5°	1626.8	1654.7	2341.8	3695.7	5836.5	7854.6	7947.2	7491.7	6305.3	4601.4	3082.1
75°	511.3	527.3	914.5	1931.9	3996.1	6107.3	6128.5	5876.8	4477.3	2531.0	1283.6
77.5°	194.9	190.2	304.5	711.9	2020.3	3845.6	3975.4	3672.5	2349.5	894.9	296.2
80°	104.9	105.5	158.2	294.7	864.3	1976.3	2085.9	1779.9	834.8	279.2	68.2
82.5°	45.5	47.5	89.0	156.1	397.0	728.9	783.7	652.4	318.9	187.7	25.4
85°	9.9	10.9	42.9	84.8	161.8	204.7	214.6	211.5	203.2	145.8	9.9
87.5°	0.0	0.0	19.2	30.5	40.9	46.5	40.9	53.3	112.2	98.3	5.2
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°	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7
2.5°	1105.8	1096.5	1080.4	1062.8	1050.4	1037.6	1027.2	1022.5	1017.4	1013.7	1018.4
5°	1103.7	1085.6	1054.6	1024.6	1002.9	985.3	970.9	965.1	959.5	955.4	954.8
7.5°	1121.8	1096.5	1048.9	1005.0	971.3	947.6	927.9	919.7	912.9	909.8	907.3
10°	1156.4	1123.9	1060.3	1002.9	959.5	919.1	876.7	844.1	823.0	813.1	809.6
12.5°	1201.4	1160.5	1082.0	1013.7	950.7	873.2	783.2	705.7	655.5	639.0	629.1
15°	1254.1	1203.5	1110.5	1027.7	918.6	777.0	624.5	523.1	476.6	467.3	457.0
17.5°	1304.8	1248.9	1144.6	1030.3	848.4	620.8	457.5	388.7	370.7	376.9	378.4
20°	1349.3	1293.9	1178.1	1007.5	720.6	465.8	354.2	337.1	343.8	355.7	357.7
22.5°	1394.2	1337.3	1209.2	947.6	557.2	353.6	318.9	323.1	329.8	341.8	343.8
25°	1449.0	1390.1	1238.1	837.5	418.2	300.9	303.0	309.2	315.8	326.7	327.8
27.5°	1512.0	1456.8	1257.2	694.3	310.2	276.6	283.3	292.6	299.3	309.6	311.7
30°	1595.8	1544.6	1263.4	545.9	260.0	254.9	258.0	269.3	279.2	288.5	290.0
32.5°	1674.4	1631.5	1242.7	412.0	240.9	234.7	234.7	241.4	252.8	261.6	263.7
35°	1746.8	1718.9	1176.6	301.4	226.4	216.1	210.9	210.9	218.1	225.4	227.4
37.5°	1842.4	1841.4	1069.6	240.4	212.5	200.6	189.8	181.5	178.9	180.5	181.5
40°	2006.3	2007.9	930.0	215.6	200.6	184.6	168.0	153.0	139.0	134.4	133.9
42.5°	2262.2	2239.0	783.7	203.7	190.2	168.0	143.2	123.1	101.4	94.6	94.1
45°	2668.5	2530.4	628.6	192.9	179.4	149.4	118.4	91.0	73.4	68.2	68.2
47.5°	3260.4	2913.5	487.0	180.9	164.9	128.2	89.4	65.7	53.7	51.2	51.7
50°	3872.5	3288.8	373.2	165.9	147.3	106.0	66.1	47.5	40.9	40.9	41.3
52.5°	4415.3	3563.9	291.0	149.9	125.6	83.2	50.2	37.2	34.1	33.6	34.1
55°	4923.5	3741.2	222.8	131.3	99.8	62.0	38.2	30.5	28.5	27.4	26.9
57.5°	5413.5	3829.1	166.9	106.0	72.3	45.0	30.5	25.8	23.8	22.3	21.7
60°	5739.7	3757.8	114.8	78.1	50.2	32.6	25.4	22.3	19.6	18.1	17.6
62.5°	5923.8	3562.8	73.9	56.4	35.7	24.3	20.2	18.6	15.0	13.4	13.4
65°	5849.3	3241.3	51.7	40.3	25.8	18.1	15.0	15.0	10.9	8.8	8.3
67.5°	5183.5	2738.3	39.3	30.0	18.6	13.4	11.4	13.0	6.8	4.1	4.1
69°	4459.8	2269.4	33.6	24.8	15.5	10.9	9.9	11.9	4.7	3.1	2.6
70°	3876.1	1957.7	30.5	21.7	13.0	9.3	8.8	11.4	4.7	2.6	2.1
72.5°	2319.1	1091.8	23.3	15.5	8.3	7.2	7.2	13.0	4.7	2.6	2.1
75°	937.2	384.6	17.1	10.9	6.2	6.2	8.8	16.5	4.1	2.1	1.6
77.5°	212.5	84.3	9.9	6.8	4.1	6.2	10.3	13.0	2.6	1.0	0.0
80°	51.7	20.7	6.2	4.1	2.6	4.7	7.8	7.2	0.6	0.0	0.0
82.5°	17.1	7.2	2.6	2.1	0.6	1.6	3.7	2.1	0.0	0.0	0.0
85°	7.2	4.1	1.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	4.7	1.6	0.0	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)