

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: P387020

Luminaire Tested: GAW-SA2D-727-U-T4W-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387020
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-727-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 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: 9816 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

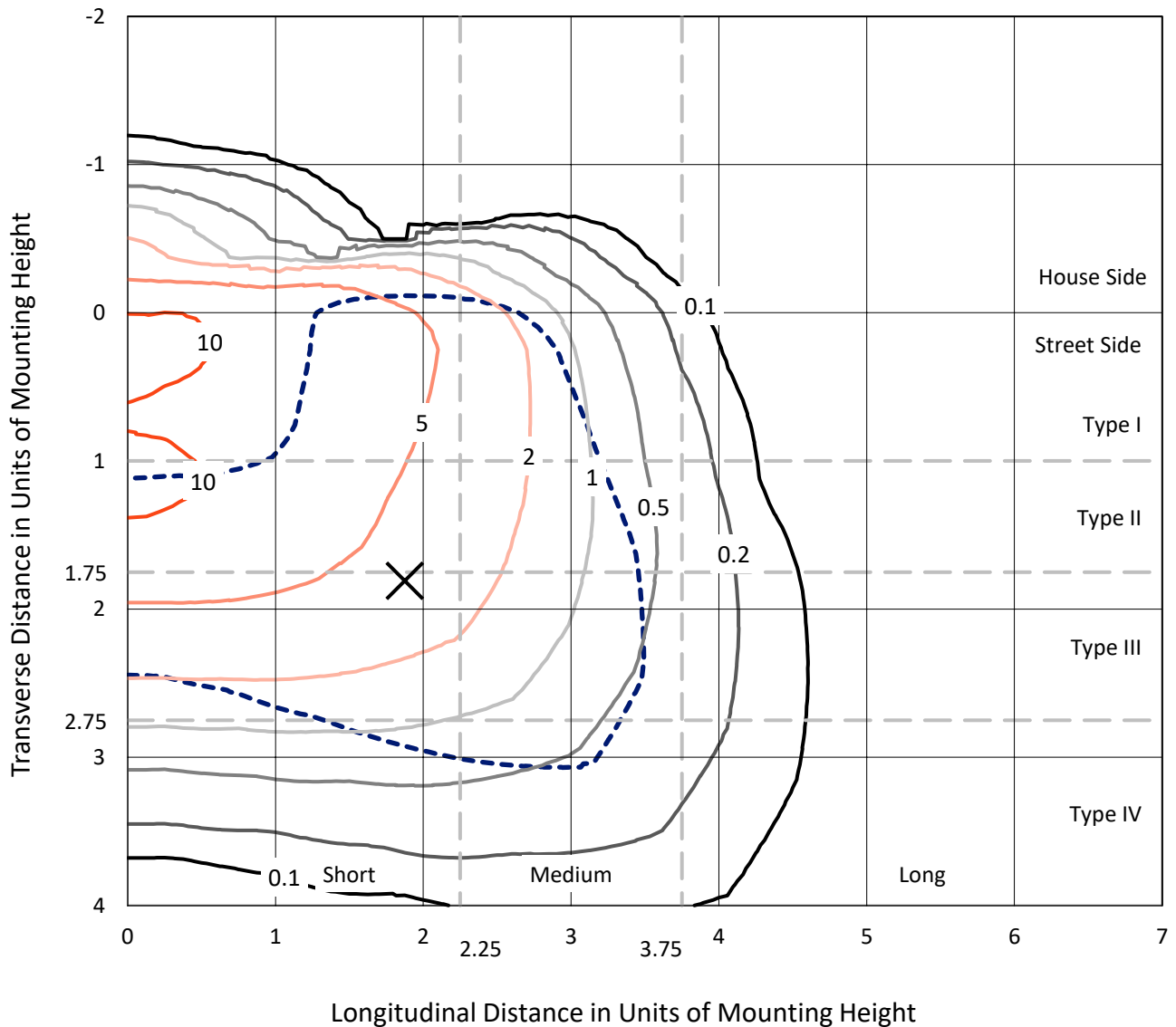
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

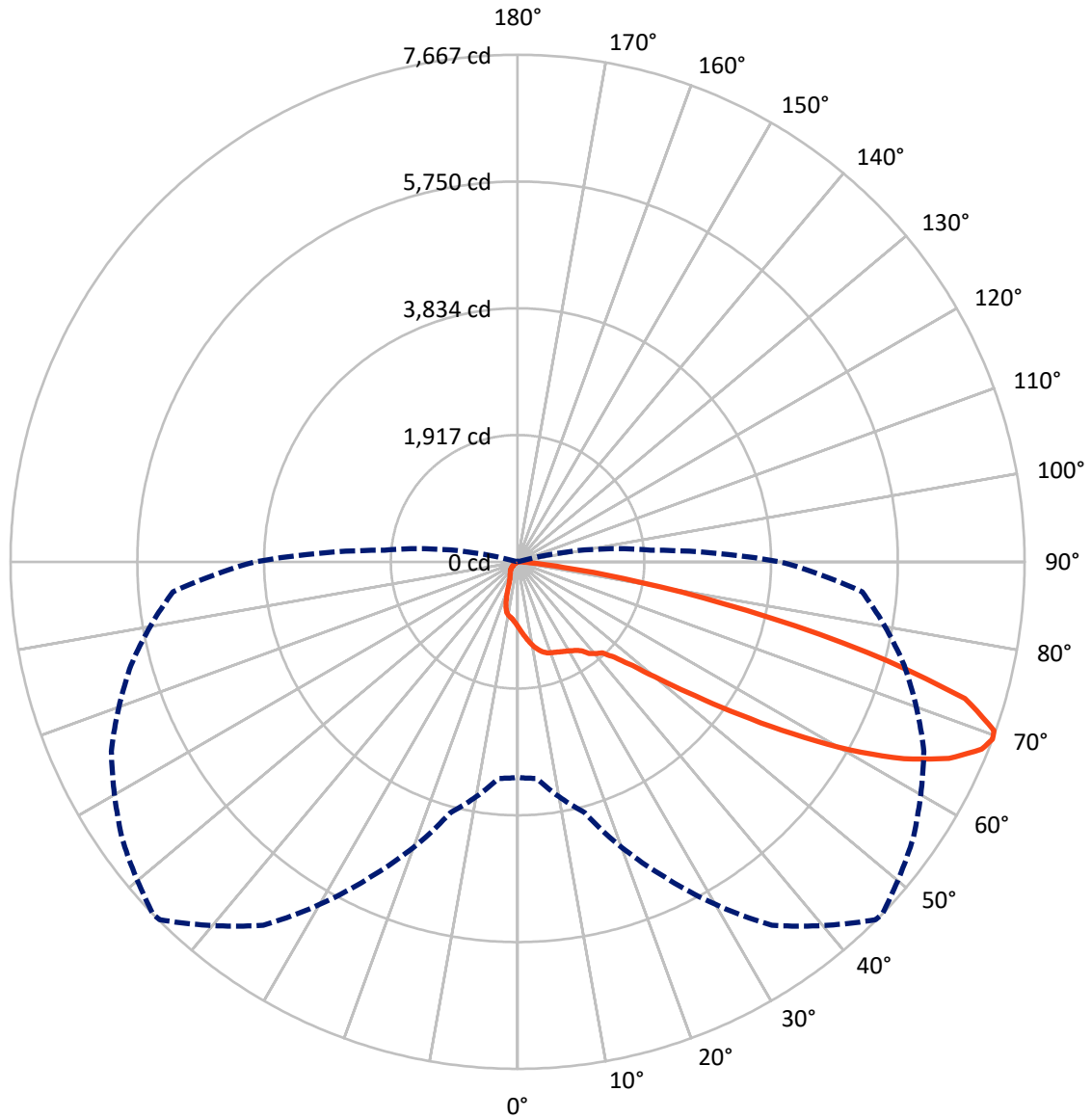
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 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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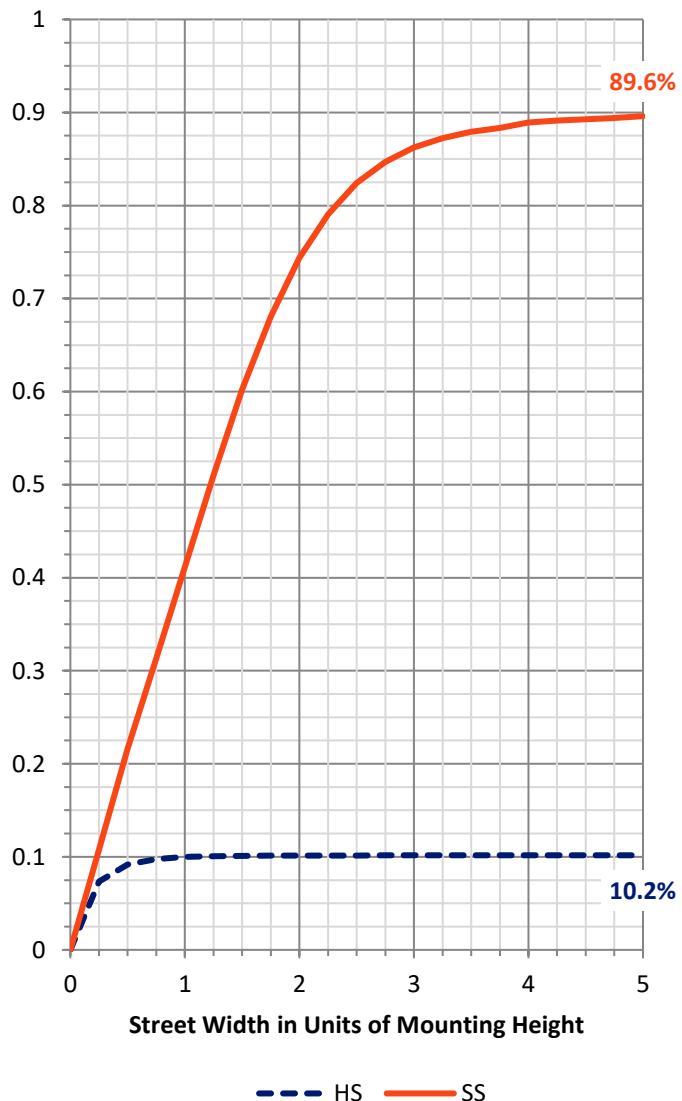
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1007.4	0.0	1007.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8808.6	0.0	8808.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	9816.0	0.0	9816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.0
10°-20°	297.0	3.0
20°-30°	467.1	4.8
30°-40°	669.8	6.8
40°-50°	1157.6	11.8
50°-60°	2287.0	23.3
60°-70°	3196.3	32.6
70°-80°	1544.1	15.7
80°-90°	99.3	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°	9816.0	100.0
0°-180°	9816.0	100.0

Coefficient of Utilization



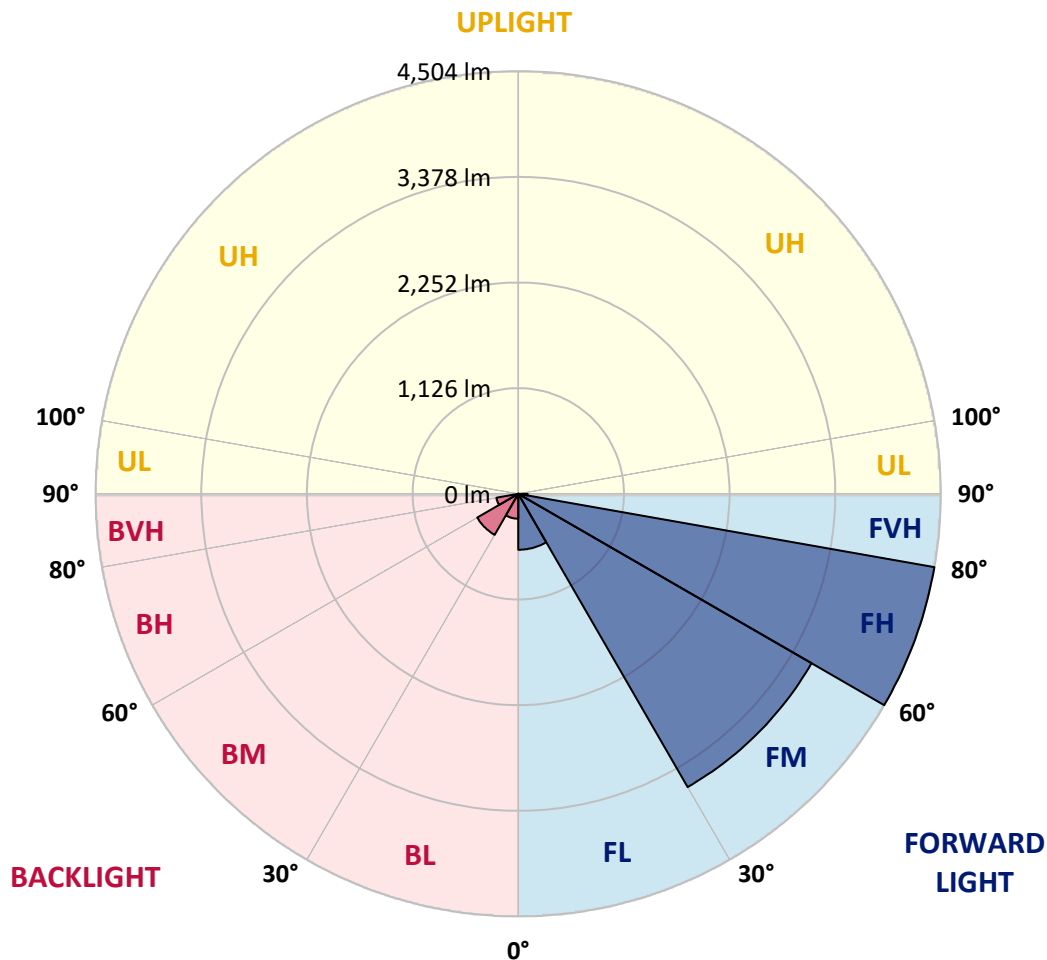
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.4	6.1			
FM (30°-60°)	3609.6	36.8			
FH (60°-80°)	4504.2	45.9			G2/5000
FVH (80°-90°)	98.4	1.0			G1/100
BL (0°-30°)	265.5	2.7	B1/500		
BM (30°-60°)	504.8	5.1	B1/1000		
BH (60°-80°)	236.2	2.4	B1/500		G1/500
BVH (80°-90°)	0.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5
2.5°	1092.6	1091.2	1084.8	1082.0	1066.4	1057.2	1053.5	1042.0	1025.4	1008.8	990.4
5°	1216.9	1216.4	1204.4	1192.9	1163.5	1135.9	1130.8	1104.1	1066.8	1031.9	996.9
7.5°	1343.9	1337.9	1325.9	1303.9	1261.0	1216.9	1212.7	1175.0	1122.1	1071.4	1021.3
10°	1451.6	1447.9	1432.3	1398.7	1348.5	1298.3	1293.3	1246.8	1187.0	1124.8	1060.8
12.5°	1535.4	1532.6	1511.9	1470.0	1416.6	1364.6	1357.7	1316.3	1252.3	1182.8	1107.3
15°	1586.4	1585.1	1559.7	1515.1	1462.6	1417.5	1411.5	1375.2	1315.8	1243.1	1158.0
17.5°	1598.4	1598.9	1572.6	1527.5	1484.3	1452.0	1447.4	1419.8	1370.1	1297.9	1208.6
20°	1571.7	1577.2	1553.8	1514.6	1487.9	1470.9	1467.2	1450.7	1408.8	1340.7	1249.1
22.5°	1534.0	1536.7	1520.6	1494.4	1483.3	1486.6	1484.7	1475.5	1440.1	1377.5	1289.1
25°	1511.0	1511.0	1501.3	1479.2	1486.6	1506.4	1506.8	1505.0	1476.9	1422.6	1337.9
27.5°	1510.0	1507.3	1496.2	1479.7	1499.9	1530.3	1532.1	1544.6	1527.1	1477.4	1398.7
30°	1546.9	1543.6	1520.2	1498.5	1524.3	1557.0	1561.6	1588.7	1580.0	1536.7	1466.3
32.5°	1632.9	1621.4	1569.4	1534.0	1553.3	1592.4	1598.4	1641.7	1655.5	1609.9	1531.7
35°	1750.7	1714.4	1639.4	1601.2	1603.0	1644.0	1649.5	1713.0	1754.0	1677.1	1582.3
37.5°	1913.2	1895.3	1773.3	1671.1	1679.4	1741.5	1757.6	1826.7	1815.2	1713.9	1639.8
40°	2269.4	2241.4	2111.6	1867.2	1752.6	1820.7	1825.8	1862.6	1863.5	1797.2	1759.5
42.5°	2754.5	2743.0	2606.3	2222.9	1896.6	1873.6	1882.8	1945.0	2014.5	1973.0	1971.2
45°	3291.6	3285.6	3140.7	2695.1	2188.0	2047.1	2058.6	2141.9	2275.0	2284.2	2342.6
47.5°	3723.8	3721.0	3637.7	3222.1	2633.9	2341.2	2344.9	2433.3	2667.1	2782.6	2876.0
50°	4117.7	4131.1	4065.3	3792.4	3241.4	2801.9	2793.2	2852.1	3227.6	3416.8	3532.8
52.5°	4665.4	4684.3	4499.7	4324.4	3878.9	3373.5	3366.6	3428.3	3901.4	4043.2	4063.9
55°	5149.1	5116.9	4971.0	4920.4	4656.2	4079.5	4077.7	4132.0	4553.1	4613.4	4651.6
57.5°	5362.7	5350.3	5420.7	5536.7	5470.4	4914.0	4909.8	4868.4	5136.2	5142.7	5260.0
60°	5497.5	5512.7	5728.6	6086.2	6251.4	5811.9	5785.2	5532.5	5693.1	5678.9	5804.5
62.5°	5396.3	5426.2	5814.6	6410.6	6835.9	6595.7	6557.9	6140.9	6169.0	6119.8	6236.7
65°	4858.7	4905.2	5541.7	6349.4	7125.8	7208.2	7170.0	6678.0	6546.9	6465.9	6401.0
67.5°	3945.2	3972.8	4637.3	5816.9	6995.1	7573.7	7565.8	7148.9	6832.2	6407.4	5903.9
69°	3260.3	3287.5	3927.2	5256.4	6707.5	7651.9	7667.1	7299.8	6777.9	6052.1	5231.1
70°	2761.4	2790.4	3386.4	4775.9	6373.8	7615.5	7642.7	7285.6	6622.4	5640.7	4640.6
72.5°	1448.4	1473.2	2084.9	3290.2	5196.1	6992.8	7075.2	6669.8	5613.5	4096.6	2743.9
75°	455.2	469.4	814.2	1719.9	3557.6	5437.2	5456.1	5232.0	3986.1	2253.3	1142.8
77.5°	173.5	169.4	271.1	633.7	1798.6	3423.7	3539.2	3269.5	2091.8	796.7	263.7
80°	93.4	93.9	140.8	262.3	769.5	1759.5	1857.1	1584.6	743.3	248.5	60.8
82.5°	40.5	42.3	79.2	139.0	353.5	648.9	697.7	580.8	284.0	167.1	22.6
85°	8.7	9.7	38.2	75.5	144.1	182.3	191.0	188.2	180.9	129.8	8.7
87.5°	0.0	0.0	17.0	27.2	36.4	41.4	36.4	47.4	99.9	87.4	4.6
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°	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5
2.5°	984.4	976.2	961.9	946.2	935.2	923.7	914.5	910.3	905.7	902.5	906.7
5°	982.6	966.5	938.9	912.2	892.9	877.2	864.3	859.3	854.2	850.5	850.1
7.5°	998.7	976.2	933.8	894.7	864.8	843.6	826.1	818.8	812.8	810.0	807.7
10°	1029.6	1000.6	943.9	892.9	854.2	818.3	780.6	751.6	732.7	724.0	720.7
12.5°	1069.6	1033.2	963.3	902.5	846.4	777.3	697.3	628.2	583.6	568.9	560.1
15°	1116.5	1071.4	988.6	915.0	817.8	691.7	556.0	465.8	424.3	416.1	406.8
17.5°	1161.6	1111.9	1019.0	917.3	755.2	552.7	407.3	346.1	330.0	335.5	336.9
20°	1201.2	1152.0	1048.9	897.0	641.6	414.7	315.3	300.1	306.1	316.6	318.5
22.5°	1241.3	1190.6	1076.5	843.6	496.1	314.8	284.0	287.6	293.6	304.2	306.1
25°	1290.0	1237.6	1102.3	745.6	372.3	267.9	269.7	275.2	281.2	290.9	291.8
27.5°	1346.2	1296.9	1119.3	618.1	276.1	246.2	252.2	260.5	266.5	275.7	277.5
30°	1420.8	1375.2	1124.8	486.0	231.5	226.9	229.7	239.8	248.5	256.8	258.2
32.5°	1490.7	1452.5	1106.4	366.8	214.5	208.9	208.9	214.9	225.1	232.9	234.7
35°	1555.1	1530.3	1047.5	268.3	201.6	192.4	187.8	187.8	194.2	200.7	202.5
37.5°	1640.3	1639.4	952.2	214.0	189.2	178.6	168.9	161.5	159.2	160.6	161.5
40°	1786.2	1787.6	828.0	191.9	178.6	164.3	149.6	136.2	123.8	119.7	119.2
42.5°	2014.0	1993.3	697.7	181.3	169.4	149.6	127.5	109.5	90.2	84.2	83.8
45°	2375.7	2252.9	559.6	171.7	159.7	133.0	105.4	81.0	65.4	60.8	60.8
47.5°	2902.7	2593.9	433.5	161.1	146.8	114.1	79.6	58.5	47.9	45.6	46.0
50°	3447.6	2928.0	332.3	147.7	131.2	94.3	58.9	42.3	36.4	36.4	36.8
52.5°	3930.9	3172.9	259.1	133.5	111.8	74.1	44.6	33.1	30.4	29.9	30.4
55°	4383.3	3330.7	198.4	116.9	88.8	55.2	34.1	27.2	25.3	24.4	23.9
57.5°	4819.6	3409.0	148.7	94.3	64.4	40.0	27.2	23.0	21.2	19.8	19.3
60°	5110.0	3345.5	102.2	69.5	44.6	29.0	22.6	19.8	17.5	16.1	15.6
62.5°	5273.9	3172.0	65.8	50.2	31.8	21.6	17.9	16.6	13.3	12.0	12.0
65°	5207.6	2885.7	46.0	35.9	23.0	16.1	13.3	13.3	9.7	7.8	7.4
67.5°	4614.8	2437.9	35.0	26.7	16.6	12.0	10.1	11.5	6.0	3.7	3.7
69°	3970.5	2020.4	29.9	22.1	13.8	9.7	8.7	10.6	4.1	2.8	2.3
70°	3450.9	1742.9	27.2	19.3	11.5	8.3	7.8	10.1	4.1	2.3	1.8
72.5°	2064.6	972.0	20.7	13.8	7.4	6.4	6.4	11.5	4.1	2.3	1.8
75°	834.4	342.4	15.2	9.7	5.5	5.5	7.8	14.7	3.7	1.8	1.4
77.5°	189.2	75.0	8.7	6.0	3.7	5.5	9.2	11.5	2.3	0.9	0.0
80°	46.0	18.4	5.5	3.7	2.3	4.1	6.9	6.4	0.5	0.0	0.0
82.5°	15.2	6.4	2.3	1.8	0.5	1.4	3.2	1.8	0.0	0.0	0.0
85°	6.4	3.7	0.9	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.1	1.4	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)