

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: P387158

Luminaire Tested: GAW-SA2D-827-U-T4FT-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-827-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8453 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

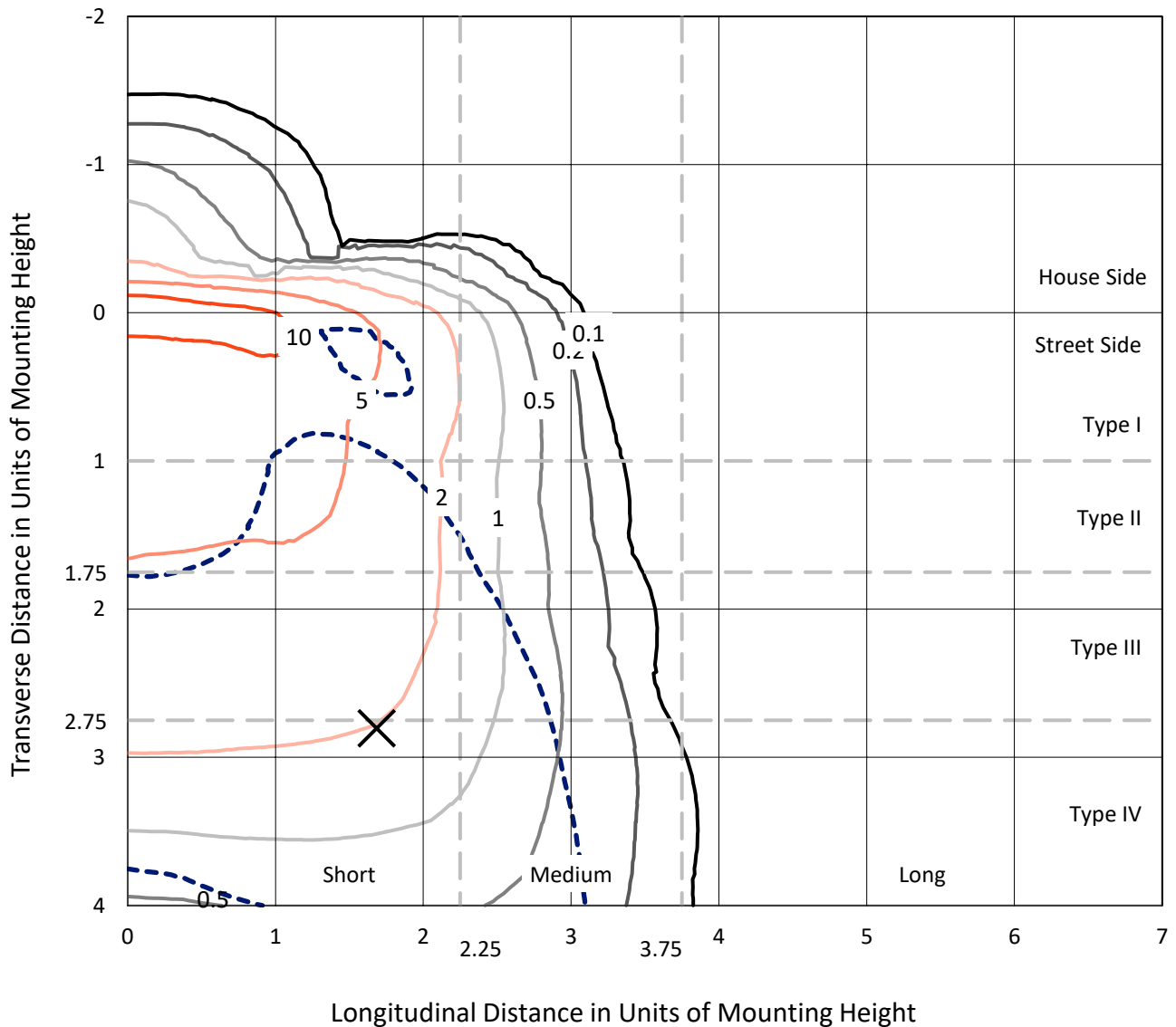
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

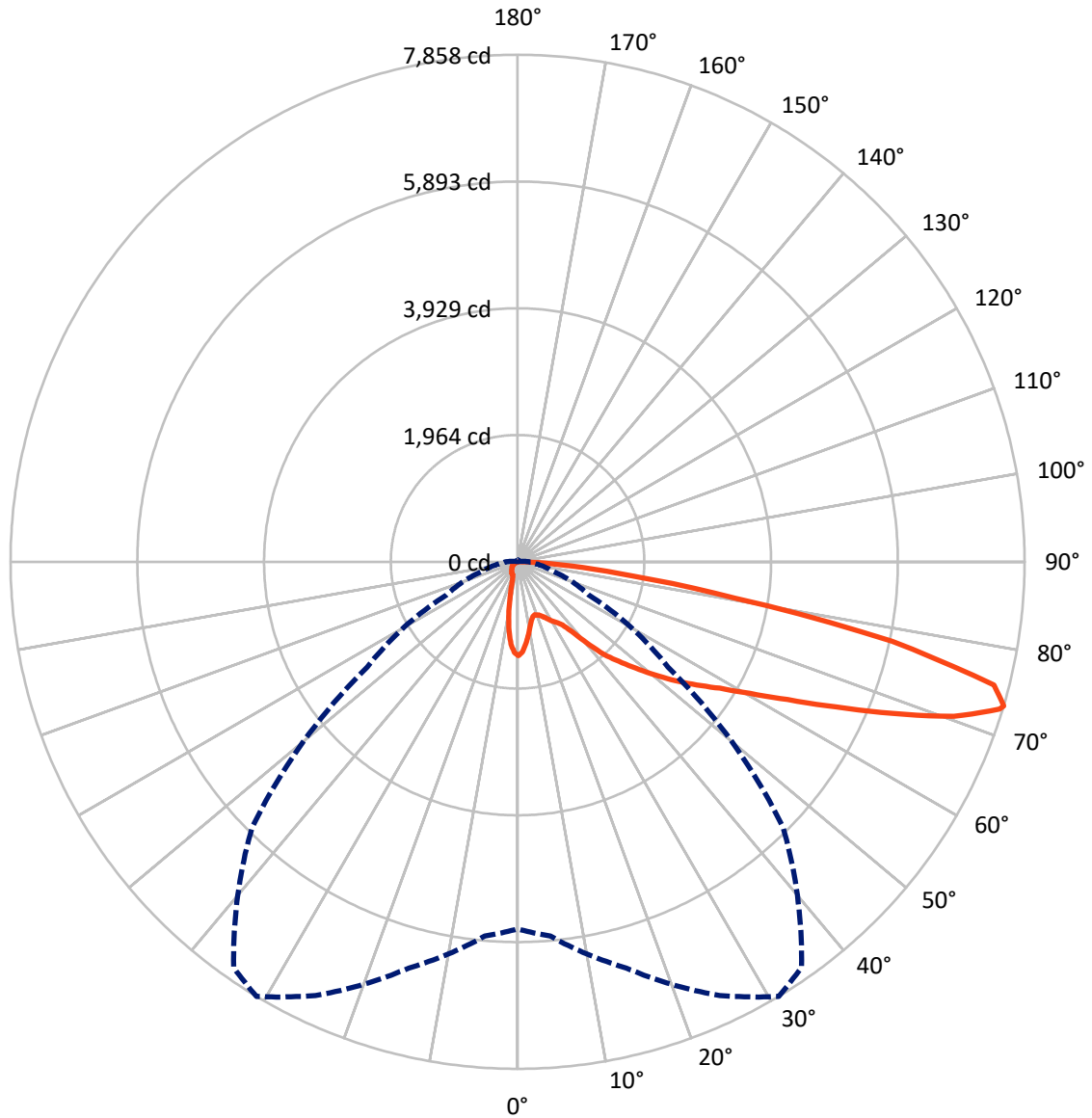
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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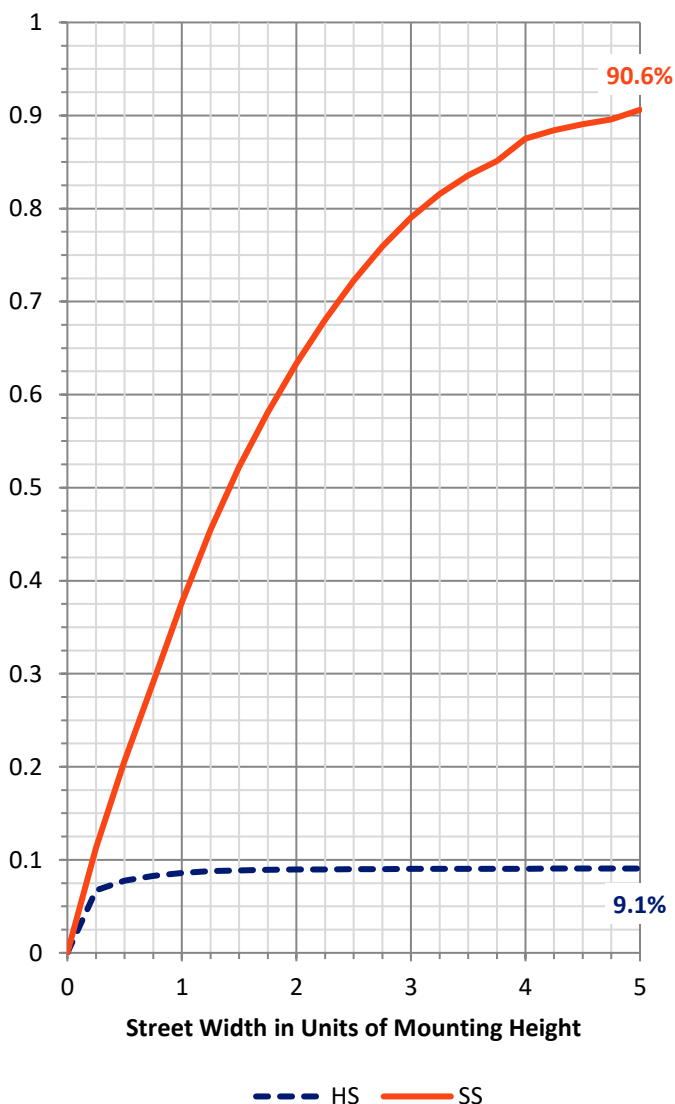
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.5	0.0	770.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7682.5	0.0	7682.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	8453.0	0.0	8453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	1.4
10°-20°	261.8	3.1
20°-30°	392.3	4.6
30°-40°	624.1	7.4
40°-50°	1114.5	13.2
50°-60°	1729.5	20.5
60°-70°	2299.1	27.2
70°-80°	1729.4	20.5
80°-90°	181.7	2.1
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°	8453.0	100.0
0°-180°	8453.0	100.0

Coefficient of Utilization

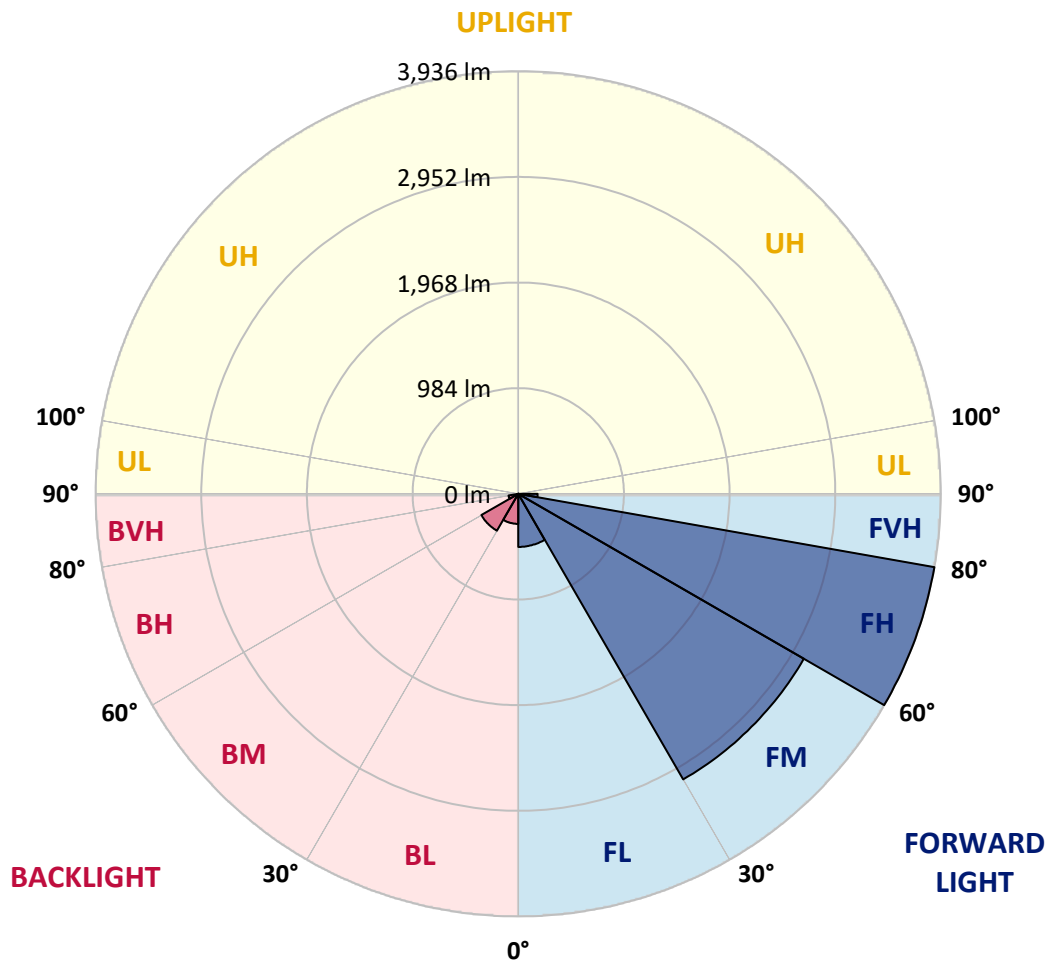


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.5	5.9			
FM (30°-60°)	3071.5	36.3			
FH (60°-80°)	3936.2	46.6			G2/5000
FVH (80°-90°)	180.2	2.1			G2/225
BL (0°-30°)	280.2	3.3	B1/500		
BM (30°-60°)	396.6	4.7	B1/1000		
BH (60°-80°)	92.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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°	31°	35°	45°	55°	65°	75°	85°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1378.2	1384.0	1390.2	1391.5	1401.8	1402.2	1417.1	1428.3	1439.5	1450.2	1453.9
5°	1236.8	1246.3	1257.5	1268.6	1290.6	1299.2	1335.6	1372.9	1408.4	1442.4	1458.9
7.5°	1085.8	1096.6	1112.3	1140.0	1164.4	1181.4	1238.8	1305.0	1371.2	1433.7	1469.7
10°	948.1	958.0	974.5	1003.9	1041.5	1064.7	1142.1	1233.9	1331.1	1425.8	1485.8
12.5°	860.4	865.7	874.8	906.3	940.2	966.3	1057.3	1171.0	1298.0	1425.4	1511.9
15°	844.2	845.9	838.4	852.5	879.0	904.2	996.5	1120.1	1272.8	1432.0	1545.8
17.5°	869.9	869.1	844.2	842.6	863.7	884.4	966.7	1085.0	1255.0	1447.3	1589.6
20°	908.8	905.9	862.9	855.0	877.3	896.8	964.6	1071.7	1248.4	1473.0	1643.0
22.5°	960.5	955.5	888.1	879.8	903.8	924.1	990.3	1084.6	1254.2	1507.3	1705.0
25°	1024.6	1017.1	931.5	922.4	946.8	967.1	1036.2	1121.4	1271.5	1549.1	1783.6
27.5°	1097.0	1086.2	1001.0	977.4	1005.1	1026.2	1097.4	1177.6	1298.8	1593.3	1880.0
30°	1165.2	1151.2	1074.2	1035.3	1069.3	1092.8	1163.6	1244.6	1342.7	1661.6	2011.9
32.5°	1233.9	1218.2	1139.6	1093.2	1123.9	1149.5	1231.8	1336.9	1425.0	1765.8	2187.3
35°	1391.9	1375.4	1279.0	1202.4	1202.0	1216.5	1327.4	1463.0	1533.8	1911.0	2396.6
37.5°	1657.9	1648.4	1556.5	1411.3	1372.5	1356.3	1457.7	1613.6	1690.1	2110.8	2632.8
40°	1949.1	1940.8	1837.8	1706.3	1647.1	1607.4	1644.6	1823.3	1911.0	2354.8	2874.0
42.5°	2277.9	2238.6	2055.0	2015.7	1962.7	1932.5	1899.0	2081.8	2182.4	2620.4	3113.0
45°	2576.6	2510.4	2272.1	2212.6	2200.6	2208.0	2226.6	2429.3	2487.6	2936.0	3351.3
47.5°	2754.4	2702.3	2519.5	2462.4	2459.1	2508.3	2648.9	2821.8	2791.7	3211.1	3561.0
50°	2923.6	2876.4	2724.6	2738.7	2754.0	2821.0	3128.4	3225.6	3069.2	3460.5	3753.4
52.5°	3060.5	2988.5	2909.1	2988.1	3063.4	3171.4	3623.1	3587.9	3266.1	3659.1	3918.0
55°	3139.5	3106.8	3145.3	3224.7	3366.2	3541.6	4090.1	3889.5	3410.0	3840.2	4027.6
57.5°	3429.1	3365.0	3441.5	3510.1	3694.6	3939.9	4490.1	4114.1	3513.9	3952.3	4052.8
60°	3779.4	3727.7	3772.8	3887.0	4136.0	4424.3	4864.0	4297.3	3568.1	4024.3	3987.5
62.5°	4337.0	4268.8	4240.6	4368.4	4698.5	5013.3	5147.7	4424.3	3556.1	3992.4	3763.3
65°	5084.0	5013.3	4887.6	5003.4	5423.2	5645.3	5465.0	4451.2	3473.3	3734.7	3196.6
67.5°	5849.3	5798.0	5690.4	5885.7	6264.6	6336.1	5800.5	4385.8	3206.9	3028.3	2258.5
70°	6354.7	6332.8	6402.7	6834.6	7172.5	7151.8	6108.2	4034.6	2499.6	1862.2	1117.2
72.5°	5990.3	6095.4	6611.6	7394.6	7807.4	7638.7	5950.2	3098.2	1428.7	716.4	323.1
73°	5688.4	5822.8	6517.7	7415.7	7857.5	7672.6	5817.4	2843.8	1217.8	565.4	244.9
75°	3957.3	4122.3	5395.9	6906.5	7623.4	7310.2	4849.1	1740.6	564.2	250.7	98.9
77.5°	1921.4	2043.4	2971.2	4990.1	5928.7	5711.5	3018.7	648.6	254.8	156.8	45.5
80°	717.3	797.5	1289.7	2539.7	3426.2	3515.9	1327.8	245.3	169.6	126.2	23.2
82.5°	187.8	209.3	475.7	1132.5	1755.9	1837.8	418.6	123.7	124.1	103.8	14.1
85°	60.0	68.7	148.5	508.4	827.3	726.4	109.2	60.0	90.2	77.4	7.9
87.5°	7.4	9.5	47.2	119.5	182.4	101.3	17.0	17.8	38.5	43.0	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°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1457.7	1455.6	1456.0	1445.3	1438.2	1424.2	1409.7	1403.1	1396.0	1393.1	1396.0
5°	1465.1	1461.4	1450.6	1417.5	1382.4	1336.9	1294.3	1262.0	1221.5	1210.3	1221.9
7.5°	1476.7	1469.2	1437.8	1370.4	1292.2	1205.3	1107.7	1036.6	978.3	940.6	954.3
10°	1493.7	1479.6	1416.3	1301.7	1161.9	1008.0	869.5	761.5	685.0	653.6	652.3
12.5°	1522.2	1495.7	1389.8	1212.4	1002.7	797.5	615.9	498.8	436.8	396.7	395.9
15°	1553.6	1514.7	1356.3	1105.2	817.4	571.2	396.7	307.7	267.6	254.8	253.1
17.5°	1592.1	1536.7	1312.9	973.3	623.4	378.5	258.9	233.3	231.6	230.4	230.4
20°	1640.5	1562.7	1257.0	822.3	442.2	252.7	220.1	221.7	222.5	220.9	221.3
22.5°	1696.7	1589.2	1190.5	660.2	299.1	211.4	210.5	212.6	213.4	212.6	213.0
25°	1762.1	1619.8	1109.4	490.2	215.9	200.6	202.7	205.6	207.6	207.6	207.6
27.5°	1843.2	1657.0	1011.8	342.1	186.6	189.4	195.2	200.6	203.5	204.3	204.3
30°	1948.7	1703.4	894.7	234.5	169.6	174.6	185.3	195.7	201.0	201.9	202.3
32.5°	2081.8	1755.5	759.0	173.3	155.1	158.8	170.4	187.8	198.1	199.8	199.8
35°	2234.5	1815.9	613.0	151.0	144.8	146.0	155.1	175.0	193.2	197.7	198.1
37.5°	2401.6	1875.4	466.2	141.1	136.1	136.1	142.7	159.7	181.2	195.2	196.9
40°	2557.5	1911.4	326.8	133.2	128.2	128.2	134.0	146.4	166.7	187.8	192.3
42.5°	2701.5	1923.8	227.5	125.7	120.8	122.0	127.0	136.9	152.2	173.3	177.5
45°	2849.6	1921.8	165.9	117.1	113.3	117.1	120.8	128.2	139.4	151.4	152.2
47.5°	2961.2	1904.4	131.5	108.8	106.3	111.3	114.6	119.5	125.7	124.9	124.9
50°	3065.9	1862.2	105.9	97.6	99.3	105.1	106.7	108.4	108.8	100.9	100.1
52.5°	3145.3	1796.4	84.8	85.6	92.2	98.0	96.4	93.9	89.8	80.2	78.6
55°	3171.8	1669.9	66.6	70.7	81.9	89.3	83.1	77.8	69.9	62.0	60.4
57.5°	3123.8	1506.5	54.2	55.0	69.1	75.3	68.3	62.0	53.4	46.7	45.5
60°	3022.0	1324.9	44.7	41.4	53.4	58.7	54.2	48.0	40.1	35.2	34.7
62.5°	2820.2	1131.3	36.8	32.3	40.5	45.1	42.2	37.6	31.0	27.7	27.3
65°	2395.8	905.0	29.8	26.1	31.4	35.2	32.7	29.4	24.4	21.9	21.5
67.5°	1672.3	611.8	24.4	21.5	24.8	27.7	25.6	24.0	19.4	19.0	19.4
70°	806.6	294.9	20.3	17.4	19.4	21.5	20.7	19.4	18.6	21.5	24.8
72.5°	231.2	98.9	16.1	14.5	15.7	17.0	17.8	17.4	20.3	26.1	30.2
73°	177.9	79.8	15.3	13.7	14.9	16.5	17.4	17.0	20.7	26.5	30.2
75°	76.1	38.5	11.6	11.2	12.4	14.5	15.3	15.3	20.7	26.9	29.0
77.5°	34.3	20.7	7.4	8.7	10.8	11.6	12.8	12.8	16.5	20.7	20.7
80°	19.4	11.2	5.8	6.6	7.9	7.9	7.9	7.0	7.4	8.3	9.1
82.5°	12.4	7.4	4.6	5.4	5.0	4.1	3.3	3.3	2.9	3.3	4.1
85°	7.0	4.1	4.1	3.3	2.1	1.7	2.1	1.7	0.4	0.0	0.4
87.5°	4.1	2.5	1.2	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)