

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: P386962

Luminaire Tested: GAW-SA2C-830-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386962  
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-SA2C-830-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA 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: 8329 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

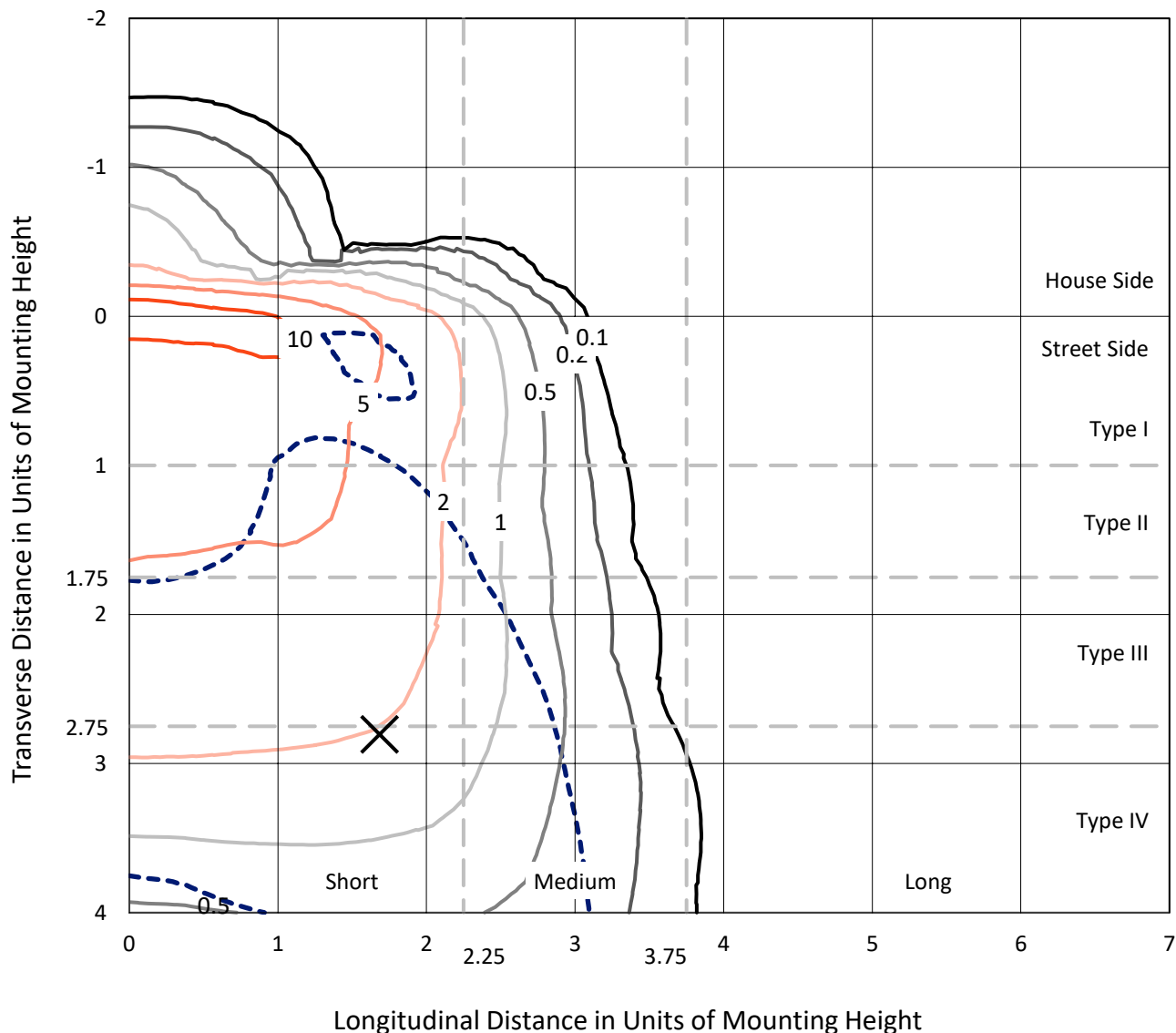
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

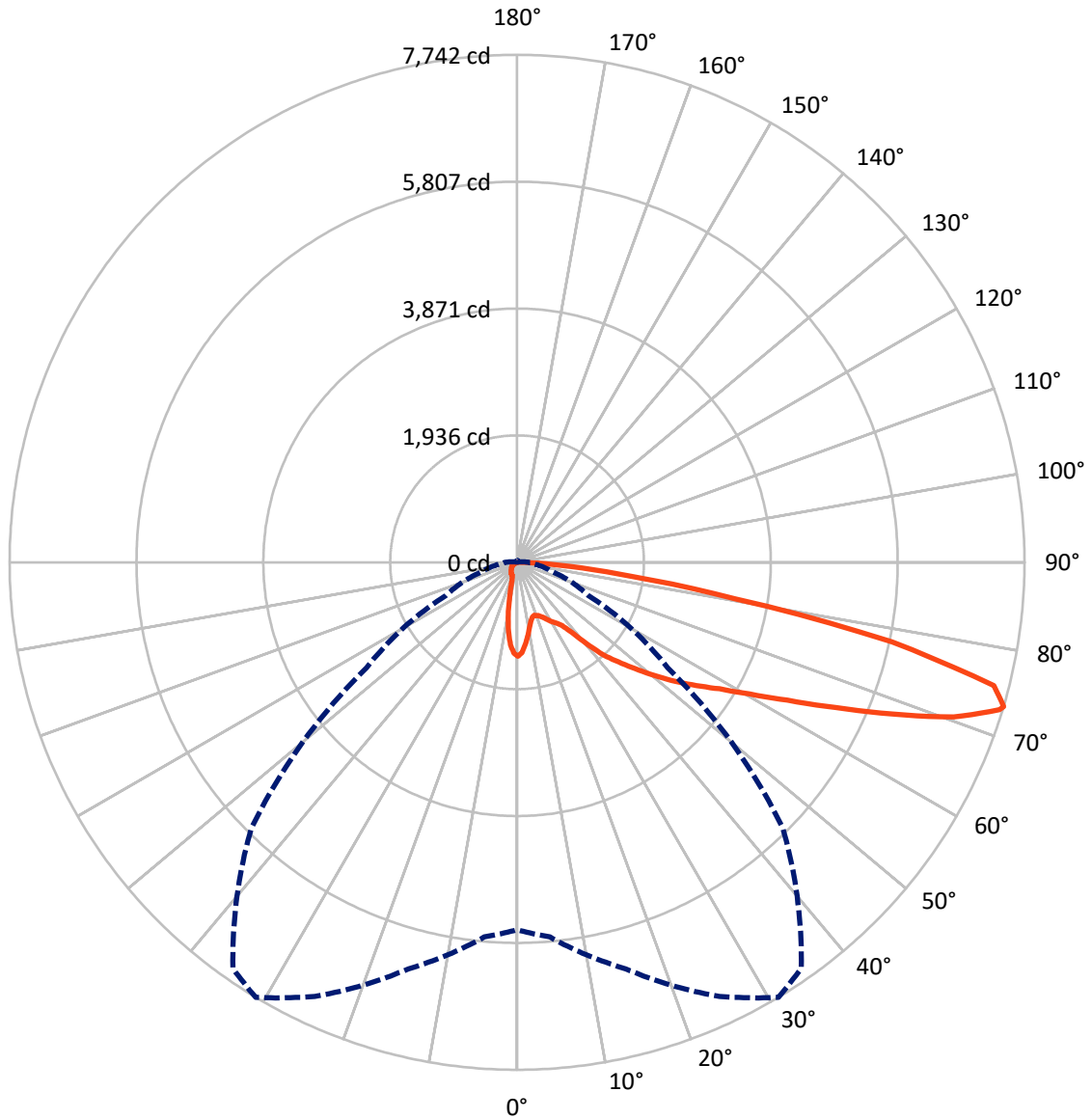
✕ Max cd  
 - - - 1/2 Max cd



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

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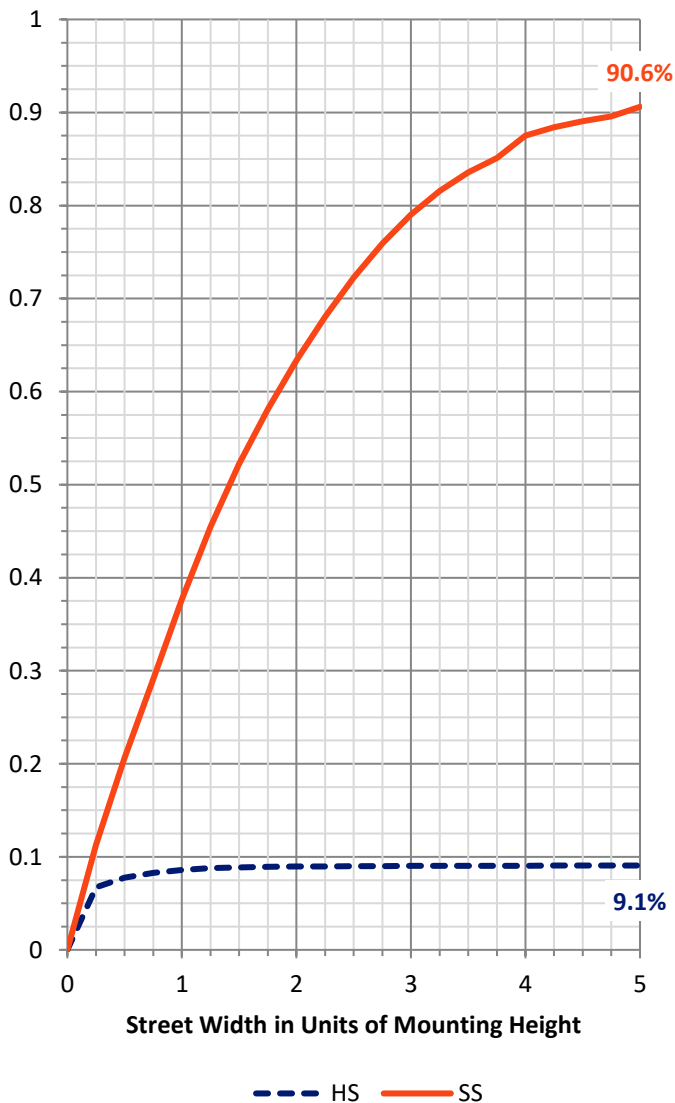
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	759.2	0.0	759.2
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	7569.8	0.0	7569.8
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	8329.0	0.0	8329.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.8	1.4
10°-20°	258.0	3.1
20°-30°	386.5	4.6
30°-40°	615.0	7.4
40°-50°	1098.2	13.2
50°-60°	1704.1	20.5
60°-70°	2265.3	27.2
70°-80°	1704.0	20.5
80°-90°	179.1	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°	8329.0	100.0
0°-180°	8329.0	100.0

**Coefficient of Utilization**



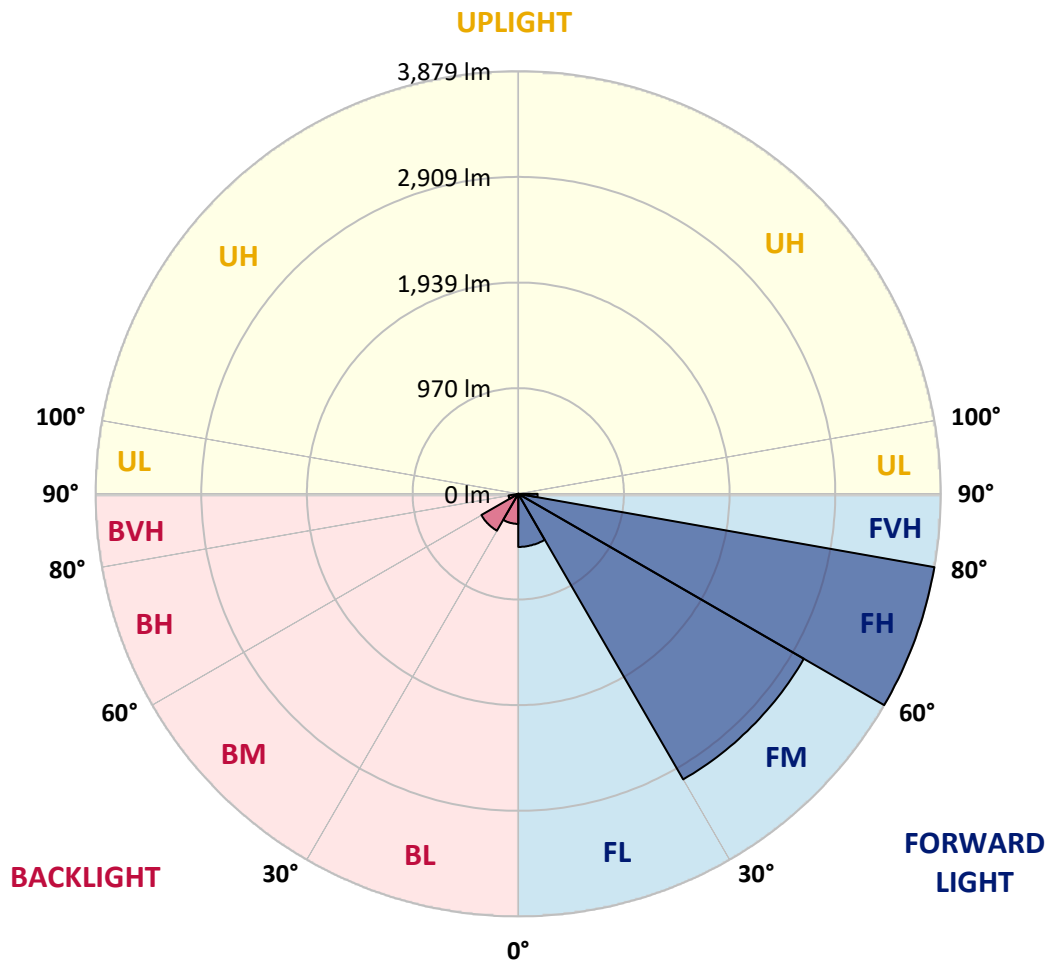
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.3	5.9			
FM (30°-60°)	3026.5	36.3			
FH (60°-80°)	3878.5	46.6			G2/5000
FVH (80°-90°)	177.5	2.1			G2/225
BL (0°-30°)	276.1	3.3	B1/500		
BM (30°-60°)	390.8	4.7	B1/1000		
BH (60°-80°)	90.8	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°	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0
2.5°	1358.0	1363.7	1369.8	1371.1	1381.3	1381.7	1396.3	1407.3	1418.3	1428.9	1432.6
5°	1218.6	1228.0	1239.0	1250.0	1271.6	1280.2	1316.0	1352.7	1387.8	1421.2	1437.5
7.5°	1069.9	1080.5	1096.0	1123.3	1147.3	1164.0	1220.7	1285.9	1351.1	1412.6	1448.1
10°	934.2	943.9	960.2	989.2	1026.3	1049.1	1125.3	1215.8	1311.6	1404.9	1464.0
12.5°	847.7	853.0	862.0	893.0	926.4	952.1	1041.8	1153.8	1279.0	1404.5	1489.7
15°	831.9	833.5	826.1	840.0	866.1	891.0	981.8	1103.7	1254.1	1411.0	1523.1
17.5°	857.1	856.3	831.9	830.2	851.0	871.4	952.5	1069.1	1236.6	1426.1	1566.3
20°	895.4	892.6	850.2	842.5	864.5	883.6	950.5	1056.0	1230.1	1451.4	1618.9
22.5°	946.4	941.5	875.1	866.9	890.5	910.5	975.7	1068.7	1235.8	1485.2	1680.0
25°	1009.6	1002.2	917.9	908.9	932.9	952.9	1021.0	1104.9	1252.9	1526.4	1757.4
27.5°	1080.9	1070.3	986.3	963.1	990.4	1011.2	1081.3	1160.4	1279.8	1570.0	1852.4
30°	1148.1	1134.3	1058.5	1020.2	1053.6	1076.8	1146.5	1226.4	1323.0	1637.2	1982.4
32.5°	1215.8	1200.3	1122.9	1077.2	1107.4	1132.6	1213.7	1317.3	1404.1	1739.9	2155.2
35°	1371.5	1355.2	1260.2	1184.8	1184.4	1198.7	1307.9	1441.6	1511.3	1883.0	2361.5
37.5°	1633.5	1624.2	1533.7	1390.6	1352.3	1336.4	1436.3	1589.9	1665.3	2079.8	2594.2
40°	1920.5	1912.3	1810.8	1681.2	1622.9	1583.8	1620.5	1796.6	1883.0	2320.3	2831.8
42.5°	2244.5	2205.8	2024.8	1986.1	1933.9	1904.2	1871.2	2051.3	2150.3	2582.0	3067.4
45°	2538.8	2473.6	2238.8	2180.1	2168.3	2175.6	2194.0	2393.7	2451.1	2892.9	3302.1
47.5°	2714.0	2662.7	2482.5	2426.3	2423.0	2471.5	2610.1	2780.5	2750.7	3164.0	3508.8
50°	2880.7	2834.3	2684.7	2698.5	2713.6	2779.6	3082.5	3178.2	3024.2	3409.7	3698.3
52.5°	3015.6	2944.7	2866.5	2944.3	3018.5	3124.9	3569.9	3535.3	3218.2	3605.4	3860.5
55°	3093.5	3061.3	3099.2	3177.4	3316.8	3489.6	4030.1	3832.4	3360.0	3783.9	3968.5
57.5°	3378.8	3315.6	3391.0	3458.7	3640.4	3882.1	4424.2	4053.7	3462.3	3894.3	3993.4
60°	3724.0	3673.0	3717.5	3829.9	4075.3	4359.4	4792.6	4234.3	3515.7	3965.3	3929.0
62.5°	4273.4	4206.1	4178.4	4304.4	4629.6	4939.8	5072.2	4359.4	3503.9	3933.9	3708.1
65°	5009.5	4939.8	4815.9	4930.0	5343.7	5562.5	5384.8	4385.9	3422.4	3680.0	3149.7
67.5°	5763.5	5712.9	5607.0	5799.3	6172.7	6243.2	5715.4	4321.5	3159.9	2983.8	2225.3
70°	6261.5	6239.9	6308.8	6734.3	7067.3	7046.9	6018.6	3975.5	2463.0	1834.9	1100.9
72.5°	5902.5	6006.0	6514.6	7286.2	7692.9	7526.6	5862.9	3052.7	1407.8	705.9	318.3
73°	5604.9	5737.4	6422.1	7306.9	7742.2	7560.0	5732.1	2802.1	1199.9	557.2	241.3
75°	3899.2	4061.9	5316.8	6805.2	7511.5	7203.0	4778.0	1715.1	555.9	247.0	97.4
77.5°	1893.2	2013.4	2927.6	4916.9	5841.7	5627.7	2974.5	639.1	251.1	154.5	44.8
80°	706.7	785.8	1270.8	2502.5	3375.9	3464.4	1308.3	241.7	167.1	124.3	22.8
82.5°	185.0	206.2	468.7	1115.9	1730.1	1810.8	412.5	121.9	122.3	102.3	13.9
85°	59.1	67.7	146.3	500.9	815.1	715.7	107.6	59.1	88.9	76.2	7.7
87.5°	7.3	9.4	46.5	117.8	179.7	99.9	16.7	17.5	37.9	42.4	4.5
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°	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0	1433.0
2.5°	1436.3	1434.2	1434.7	1424.1	1417.1	1403.3	1389.0	1382.5	1375.6	1372.7	1375.6
5°	1443.6	1440.0	1429.4	1396.7	1362.1	1317.3	1275.3	1243.5	1203.6	1192.6	1204.0
7.5°	1455.0	1447.7	1416.7	1350.3	1273.3	1187.7	1091.5	1021.4	963.9	926.8	940.3
10°	1471.7	1457.9	1395.5	1282.6	1144.9	993.3	856.7	750.3	674.9	644.0	642.7
12.5°	1499.9	1473.8	1369.4	1194.6	988.0	785.8	606.9	491.5	430.4	390.9	390.0
15°	1530.8	1492.5	1336.4	1089.0	805.4	562.9	390.9	303.2	263.7	251.1	249.4
17.5°	1568.7	1514.1	1293.6	959.0	614.2	372.9	255.1	229.9	228.2	227.0	227.0
20°	1616.4	1539.8	1238.6	810.3	435.7	249.0	216.8	218.5	219.3	217.6	218.1
22.5°	1671.9	1565.9	1173.0	650.5	294.7	208.3	207.5	209.5	210.3	209.5	209.9
25°	1736.3	1596.1	1093.1	483.0	212.8	197.7	199.7	202.6	204.6	204.6	204.6
27.5°	1816.1	1632.7	996.9	337.1	183.8	186.7	192.4	197.7	200.5	201.3	201.3
30°	1920.1	1678.4	881.6	231.1	167.1	172.0	182.6	192.8	198.1	198.9	199.3
32.5°	2051.3	1729.7	747.9	170.8	152.8	156.5	167.9	185.0	195.2	196.9	196.9
35°	2201.7	1789.2	604.0	148.8	142.7	143.9	152.8	172.4	190.3	194.8	195.2
37.5°	2366.4	1847.9	459.3	139.0	134.1	134.1	140.6	157.3	178.5	192.4	194.0
40°	2520.0	1883.4	322.0	131.2	126.3	126.3	132.1	144.3	164.3	185.0	189.5
42.5°	2661.8	1895.6	224.2	123.9	119.0	120.2	125.1	134.9	150.0	170.8	174.8
45°	2807.8	1893.6	163.4	115.3	111.7	115.3	119.0	126.3	137.4	149.2	150.0
47.5°	2917.8	1876.5	129.6	107.2	104.7	109.6	112.9	117.8	123.9	123.1	123.1
50°	3020.9	1834.9	104.3	96.2	97.8	103.5	105.2	106.8	107.2	99.4	98.6
52.5°	3099.2	1770.1	83.6	84.4	90.9	96.6	95.0	92.5	88.4	79.1	77.4
55°	3125.3	1645.4	65.6	69.7	80.7	88.0	81.9	76.6	68.9	61.1	59.5
57.5°	3078.0	1484.4	53.4	54.2	68.1	74.2	67.2	61.1	52.6	46.1	44.8
60°	2977.7	1305.5	44.0	40.8	52.6	57.9	53.4	47.3	39.5	34.6	34.2
62.5°	2778.8	1114.7	36.3	31.8	39.9	44.4	41.6	37.1	30.6	27.3	26.9
65°	2360.7	891.8	29.3	25.7	31.0	34.6	32.2	28.9	24.0	21.6	21.2
67.5°	1647.8	602.8	24.0	21.2	24.5	27.3	25.3	23.6	19.2	18.7	19.2
70°	794.8	290.6	20.0	17.1	19.2	21.2	20.4	19.2	18.3	21.2	24.5
72.5°	227.8	97.4	15.9	14.3	15.5	16.7	17.5	17.1	20.0	25.7	29.8
73°	175.3	78.7	15.1	13.4	14.7	16.3	17.1	16.7	20.4	26.1	29.8
75°	75.0	37.9	11.4	11.0	12.2	14.3	15.1	15.1	20.4	26.5	28.5
77.5°	33.8	20.4	7.3	8.6	10.6	11.4	12.6	12.6	16.3	20.4	20.4
80°	19.2	11.0	5.7	6.5	7.7	7.7	7.7	6.9	7.3	8.2	9.0
82.5°	12.2	7.3	4.5	5.3	4.9	4.1	3.3	3.3	2.9	3.3	4.1
85°	6.9	4.1	4.1	3.3	2.0	1.6	2.0	1.6	0.4	0.0	0.4
87.5°	4.1	2.4	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)