

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: P386346

Luminaire Tested: GAW-SA2A-727-U-T4FT-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386346
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-SA2A-727-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA 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: 5775 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

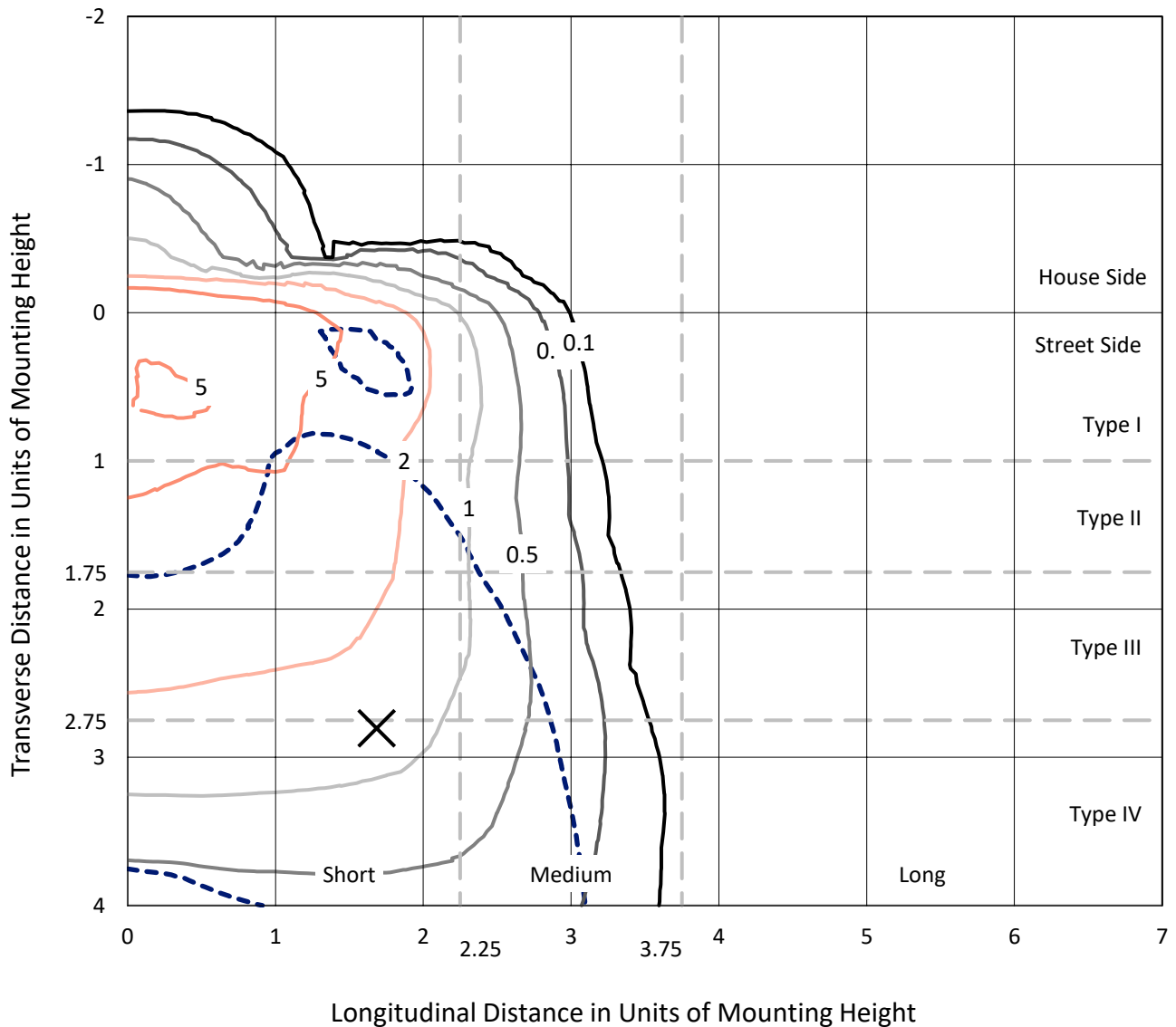
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

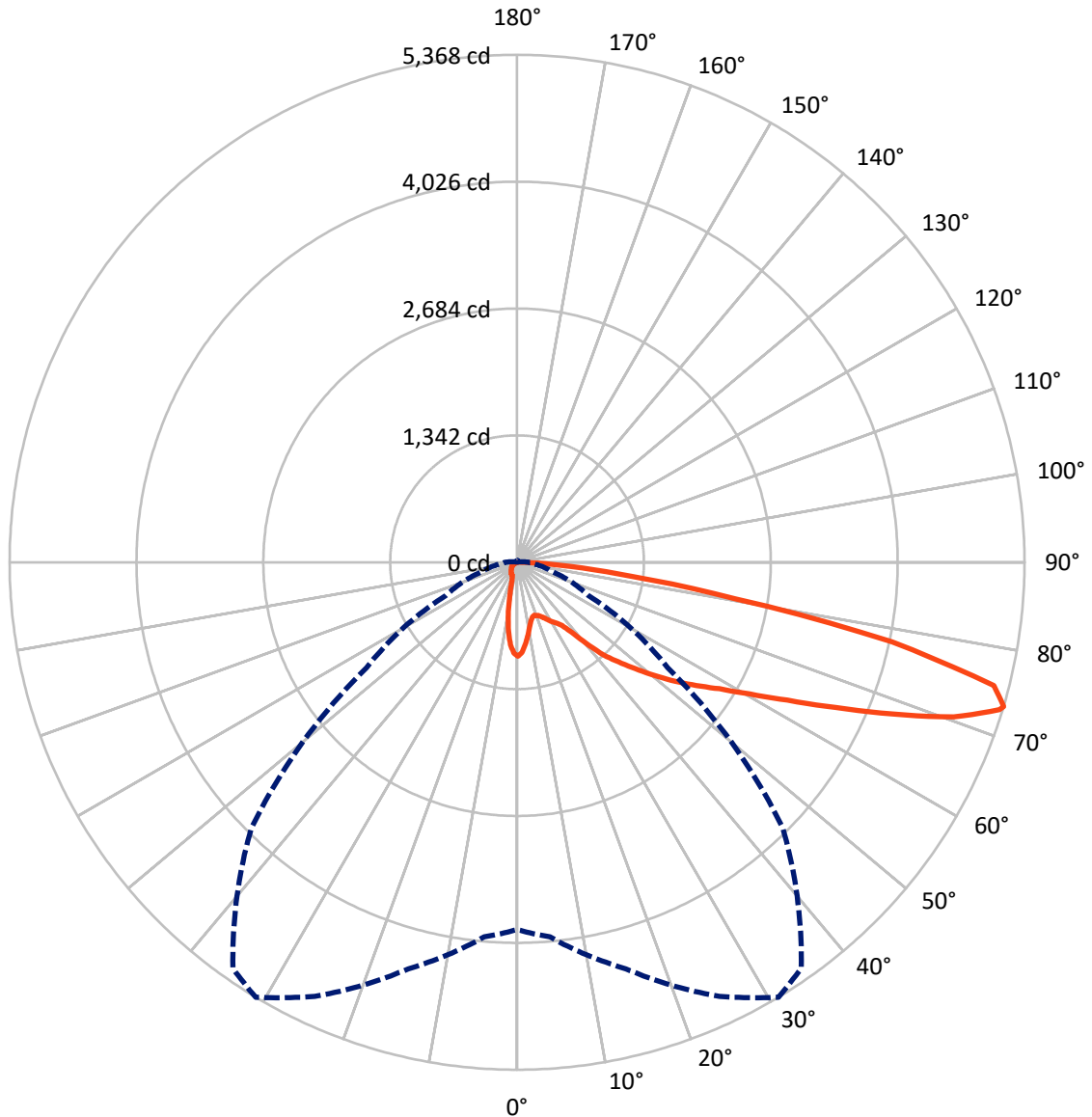
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 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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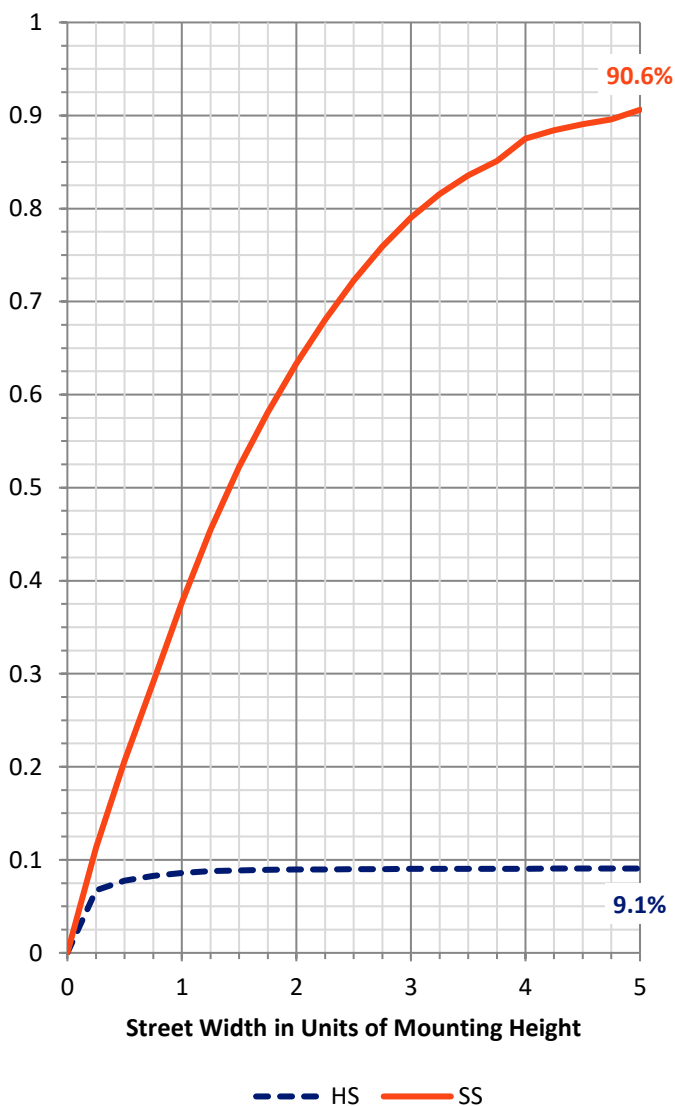
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.4	0.0	526.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	5248.6	0.0	5248.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	5775.0	0.0	5775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.4
10°-20°	178.9	3.1
20°-30°	268.0	4.6
30°-40°	426.4	7.4
40°-50°	761.4	13.2
50°-60°	1181.5	20.5
60°-70°	1570.7	27.2
70°-80°	1181.5	20.5
80°-90°	124.2	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°	5775.0	100.0
0°-180°	5775.0	100.0

Coefficient of Utilization



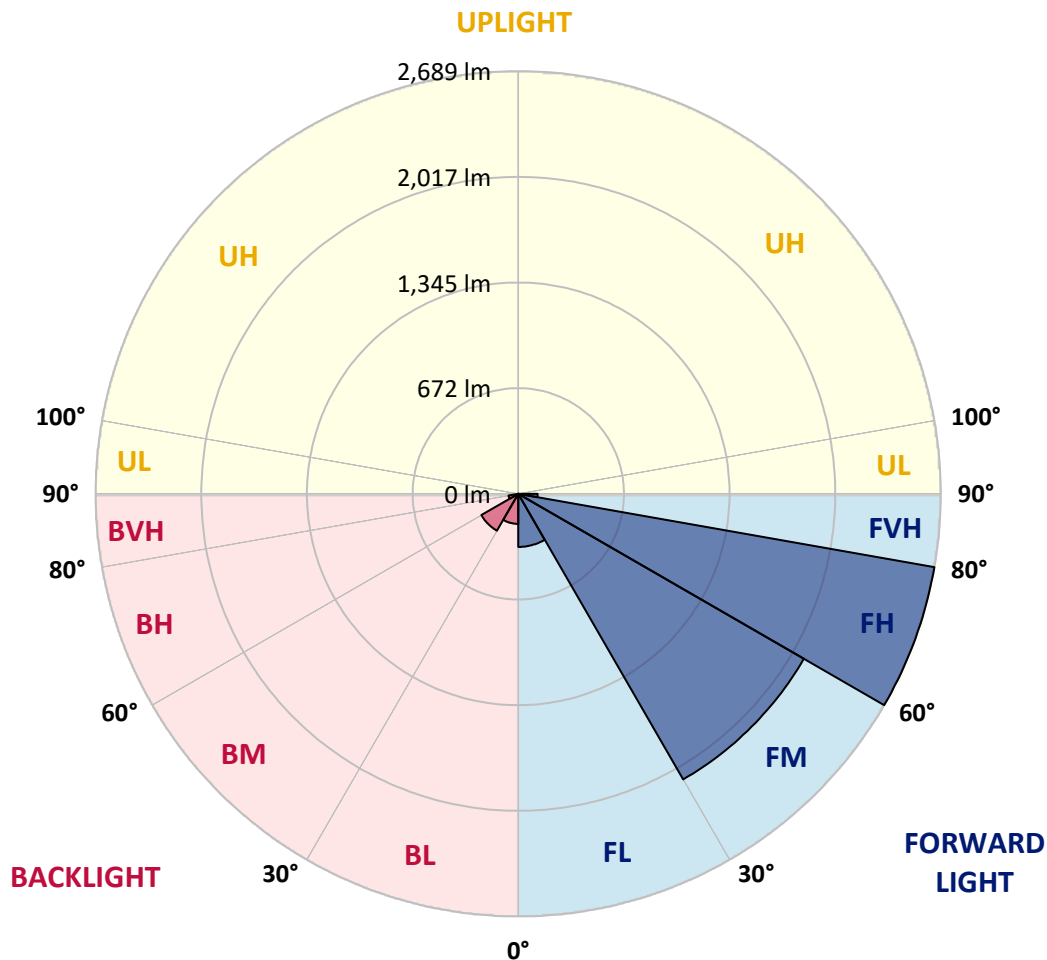
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.8	5.9			
FM (30°-60°)	2098.4	36.3			
FH (60°-80°)	2689.2	46.6			G2/5000
FVH (80°-90°)	123.1	2.1			G2/225
BL (0°-30°)	191.4	3.3	B1/500		
BM (30°-60°)	271.0	4.7	B1/1000		
BH (60°-80°)	63.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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°	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6
2.5°	941.6	945.6	949.8	950.6	957.7	958.0	968.2	975.8	983.4	990.8	993.3
5°	845.0	851.5	859.1	866.7	881.7	887.6	912.5	937.9	962.2	985.4	996.7
7.5°	741.8	749.2	759.9	778.8	795.5	807.1	846.4	891.6	936.8	979.5	1004.1
10°	647.7	654.5	665.8	685.9	711.6	727.4	780.2	843.0	909.4	974.1	1015.1
12.5°	587.8	591.5	597.7	619.2	642.3	660.1	722.3	800.0	886.8	973.8	1032.9
15°	576.8	577.9	572.8	582.4	600.5	617.8	680.8	765.3	869.5	978.3	1056.1
17.5°	594.3	593.7	576.8	575.6	590.1	604.2	660.4	741.2	857.4	988.8	1086.0
20°	620.9	618.9	589.5	584.1	599.4	612.7	659.0	732.2	852.9	1006.3	1122.5
22.5°	656.2	652.8	606.7	601.1	617.5	631.3	676.5	741.0	856.8	1029.8	1164.9
25°	700.0	694.9	636.4	630.2	646.9	660.7	707.9	766.1	868.7	1058.3	1218.5
27.5°	749.4	742.1	683.9	667.8	686.7	701.1	749.7	804.5	887.3	1088.6	1284.4
30°	796.1	786.5	733.9	707.3	730.5	746.6	794.9	850.3	917.3	1135.2	1374.5
32.5°	843.0	832.2	778.5	746.9	767.8	785.3	841.6	913.3	973.5	1206.4	1494.4
35°	950.9	939.6	873.8	821.5	821.2	831.1	906.8	999.5	1047.9	1305.6	1637.3
37.5°	1132.6	1126.1	1063.4	964.2	937.6	926.6	995.9	1102.4	1154.7	1442.1	1798.7
40°	1331.6	1325.9	1255.6	1165.7	1125.3	1098.2	1123.6	1245.7	1305.6	1608.8	1963.5
42.5°	1556.2	1529.4	1403.9	1377.1	1340.9	1320.3	1297.4	1422.3	1491.0	1790.2	2126.8
45°	1760.3	1715.1	1552.3	1511.6	1503.4	1508.5	1521.2	1659.7	1699.5	2005.9	2289.6
47.5°	1881.8	1846.2	1721.3	1682.3	1680.0	1713.7	1809.7	1927.9	1907.2	2193.8	2432.9
50°	1997.4	1965.2	1861.4	1871.1	1881.5	1927.3	2137.3	2203.7	2096.8	2364.2	2564.3
52.5°	2090.9	2041.7	1987.5	2041.5	2092.9	2166.6	2475.2	2451.2	2231.4	2499.8	2676.7
55°	2144.9	2122.6	2148.8	2203.1	2299.8	2419.6	2794.3	2657.2	2329.7	2623.6	2751.6
57.5°	2342.7	2298.9	2351.2	2398.1	2524.1	2691.7	3067.6	2810.7	2400.6	2700.2	2768.9
60°	2582.1	2546.7	2577.5	2655.5	2825.7	3022.6	3323.0	2935.9	2437.7	2749.4	2724.2
62.5°	2963.0	2916.4	2897.2	2984.5	3210.0	3425.0	3516.9	3022.6	2429.5	2727.6	2571.0
65°	3473.4	3425.0	3339.1	3418.3	3705.1	3856.8	3733.6	3041.0	2372.9	2551.5	2183.9
67.5°	3996.2	3961.1	3887.6	4021.0	4279.9	4328.8	3962.8	2996.3	2191.0	2068.9	1543.0
70°	4341.5	4326.5	4374.3	4669.3	4900.2	4886.1	4173.1	2756.4	1707.7	1272.2	763.3
72.5°	4092.5	4164.3	4517.0	5051.9	5334.0	5218.7	4065.1	2116.6	976.1	489.5	220.7
73°	3886.2	3978.1	4452.8	5066.3	5368.2	5241.8	3974.4	1942.8	832.0	386.3	167.3
75°	2703.6	2816.3	3686.4	4718.5	5208.2	4994.3	3312.8	1189.2	385.5	171.3	67.5
77.5°	1312.6	1396.0	2029.9	3409.2	4050.4	3902.1	2062.4	443.1	174.1	107.1	31.1
80°	490.0	544.8	881.1	1735.1	2340.7	2402.0	907.1	167.6	115.9	86.2	15.8
82.5°	128.3	143.0	325.0	773.7	1199.6	1255.6	286.0	84.5	84.8	70.9	9.6
85°	41.0	46.9	101.5	347.3	565.2	496.2	74.6	41.0	61.6	52.8	5.4
87.5°	5.1	6.5	32.2	81.7	124.6	69.2	11.6	12.2	26.3	29.4	3.1
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°	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6	993.6
2.5°	995.9	994.4	994.7	987.4	982.6	973.0	963.1	958.6	953.8	951.8	953.8
5°	1000.9	998.4	991.1	968.4	944.4	913.3	884.2	862.2	834.5	826.9	834.8
7.5°	1008.9	1003.8	982.3	936.2	882.8	823.5	756.8	708.2	668.3	642.6	651.9
10°	1020.4	1010.8	967.6	889.3	793.8	688.7	594.0	520.3	468.0	446.5	445.7
12.5°	1039.9	1021.9	949.5	828.3	685.0	544.8	420.8	340.8	298.4	271.0	270.4
15°	1061.4	1034.9	926.6	755.1	558.4	390.3	271.0	210.2	182.8	174.1	172.9
17.5°	1087.7	1049.8	897.0	664.9	425.9	258.6	176.9	159.4	158.3	157.4	157.4
20°	1120.8	1067.6	858.8	561.8	302.1	172.7	150.3	151.5	152.0	150.9	151.2
22.5°	1159.2	1085.7	813.3	451.0	204.3	144.4	143.8	145.3	145.8	145.3	145.5
25°	1203.9	1106.6	757.9	334.9	147.5	137.1	138.5	140.4	141.9	141.9	141.9
27.5°	1259.2	1132.1	691.2	233.7	127.4	129.4	133.4	137.1	139.0	139.6	139.6
30°	1331.3	1163.7	611.3	160.2	115.9	119.3	126.6	133.7	137.3	137.9	138.2
32.5°	1422.3	1199.3	518.6	118.4	106.0	108.5	116.4	128.3	135.4	136.5	136.5
35°	1526.6	1240.6	418.8	103.1	98.9	99.8	106.0	119.5	132.0	135.1	135.4
37.5°	1640.7	1281.3	318.5	96.4	93.0	93.0	97.5	109.1	123.8	133.4	134.5
40°	1747.3	1305.9	223.2	91.0	87.6	87.6	91.6	100.0	113.9	128.3	131.4
42.5°	1845.6	1314.3	155.4	85.9	82.5	83.4	86.8	93.5	104.0	118.4	121.2
45°	1946.8	1312.9	113.3	80.0	77.4	80.0	82.5	87.6	95.2	103.4	104.0
47.5°	2023.1	1301.1	89.9	74.3	72.6	76.0	78.3	81.7	85.9	85.3	85.3
50°	2094.6	1272.2	72.3	66.7	67.8	71.8	72.9	74.0	74.3	69.0	68.4
52.5°	2148.8	1227.3	57.9	58.5	63.0	67.0	65.8	64.1	61.3	54.8	53.7
55°	2166.9	1140.8	45.5	48.3	56.0	61.0	56.8	53.1	47.8	42.4	41.3
57.5°	2134.2	1029.2	37.0	37.6	47.2	51.4	46.6	42.4	36.5	31.9	31.1
60°	2064.6	905.1	30.5	28.3	36.5	40.1	37.0	32.8	27.4	24.0	23.7
62.5°	1926.7	772.9	25.2	22.0	27.7	30.8	28.8	25.7	21.2	18.9	18.7
65°	1636.8	618.3	20.3	17.8	21.5	24.0	22.3	20.1	16.7	15.0	14.7
67.5°	1142.5	418.0	16.7	14.7	17.0	18.9	17.5	16.4	13.3	13.0	13.3
70°	551.1	201.5	13.8	11.9	13.3	14.7	14.1	13.3	12.7	14.7	17.0
72.5°	158.0	67.5	11.0	9.9	10.7	11.6	12.2	11.9	13.8	17.8	20.6
73°	121.5	54.5	10.5	9.3	10.2	11.3	11.9	11.6	14.1	18.1	20.6
75°	52.0	26.3	7.9	7.6	8.5	9.9	10.5	10.5	14.1	18.4	19.8
77.5°	23.5	14.1	5.1	5.9	7.3	7.9	8.8	8.8	11.3	14.1	14.1
80°	13.3	7.6	4.0	4.5	5.4	5.4	5.4	4.8	5.1	5.7	6.2
82.5°	8.5	5.1	3.1	3.7	3.4	2.8	2.3	2.3	2.0	2.3	2.8
85°	4.8	2.8	2.8	2.3	1.4	1.1	1.4	1.1	0.3	0.0	0.3
87.5°	2.8	1.7	0.8	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)