

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: P386506

Luminaire Tested: GAW-SA2A-830-U-T2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-830-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5498 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

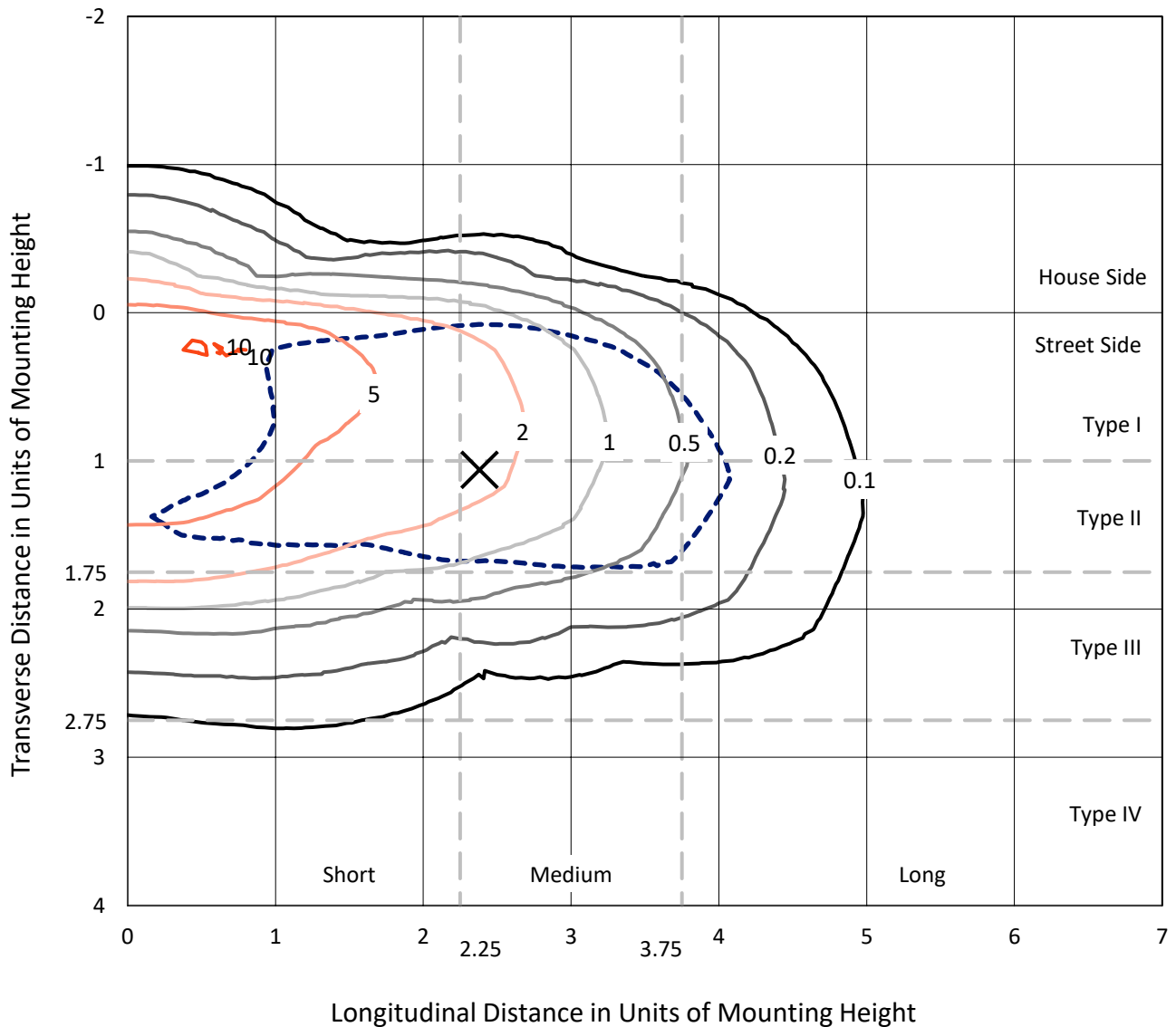
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

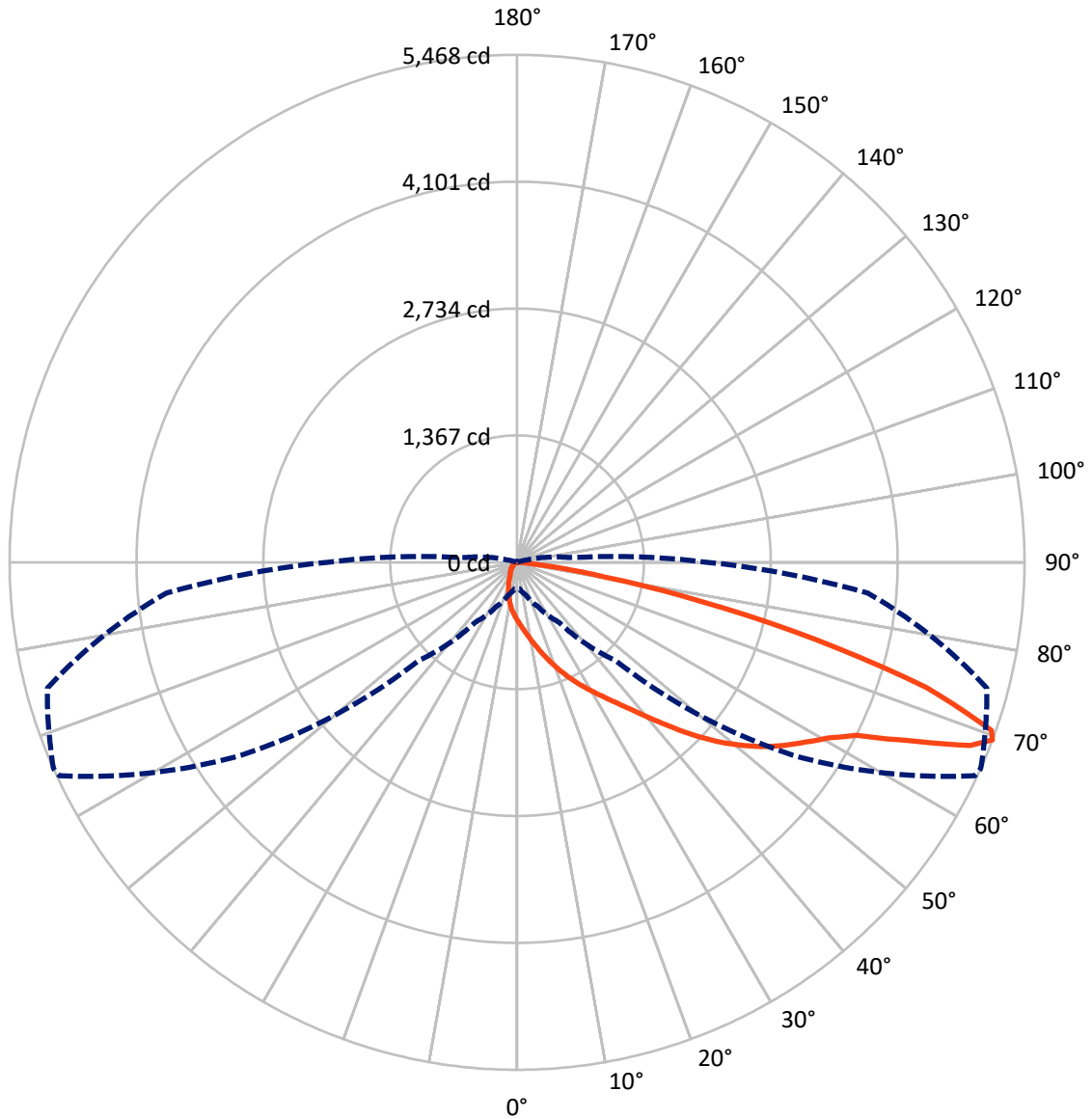
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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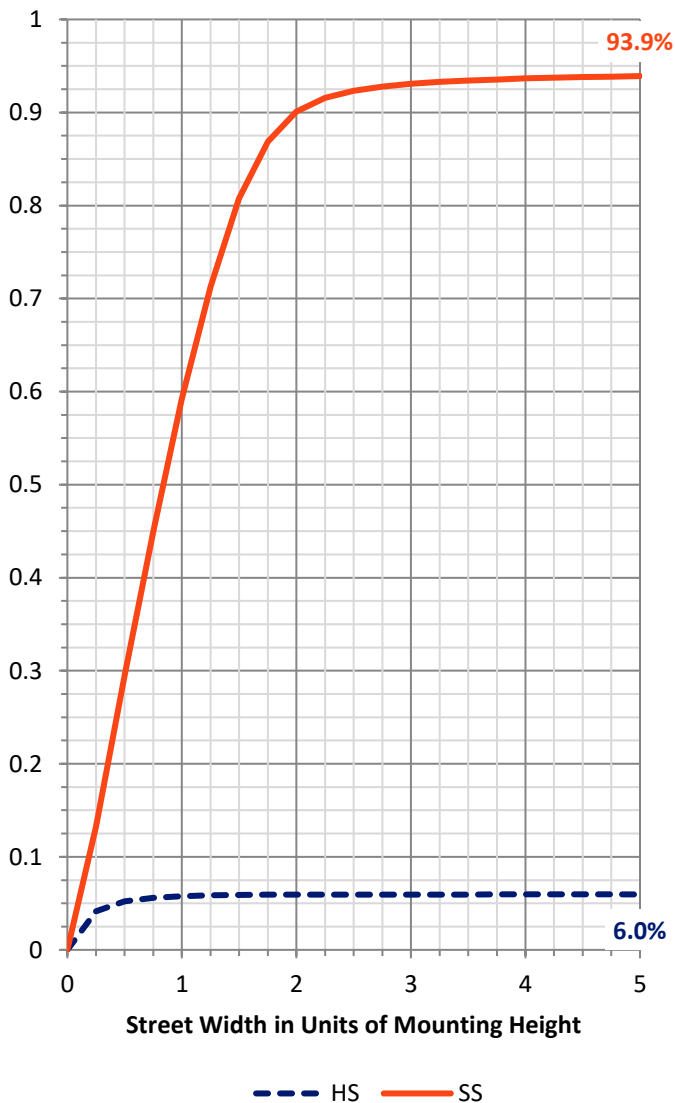
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	329.8	0.0	329.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	5168.2	0.0	5168.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	5498.0	0.0	5498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.1
10°-20°	180.0	3.3
20°-30°	313.5	5.7
30°-40°	549.9	10.0
40°-50°	920.5	16.7
50°-60°	1353.1	24.6
60°-70°	1389.3	25.3
70°-80°	685.9	12.5
80°-90°	45.3	0.8
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°	5498.0	100.0
0°-180°	5498.0	100.0

Coefficient of Utilization

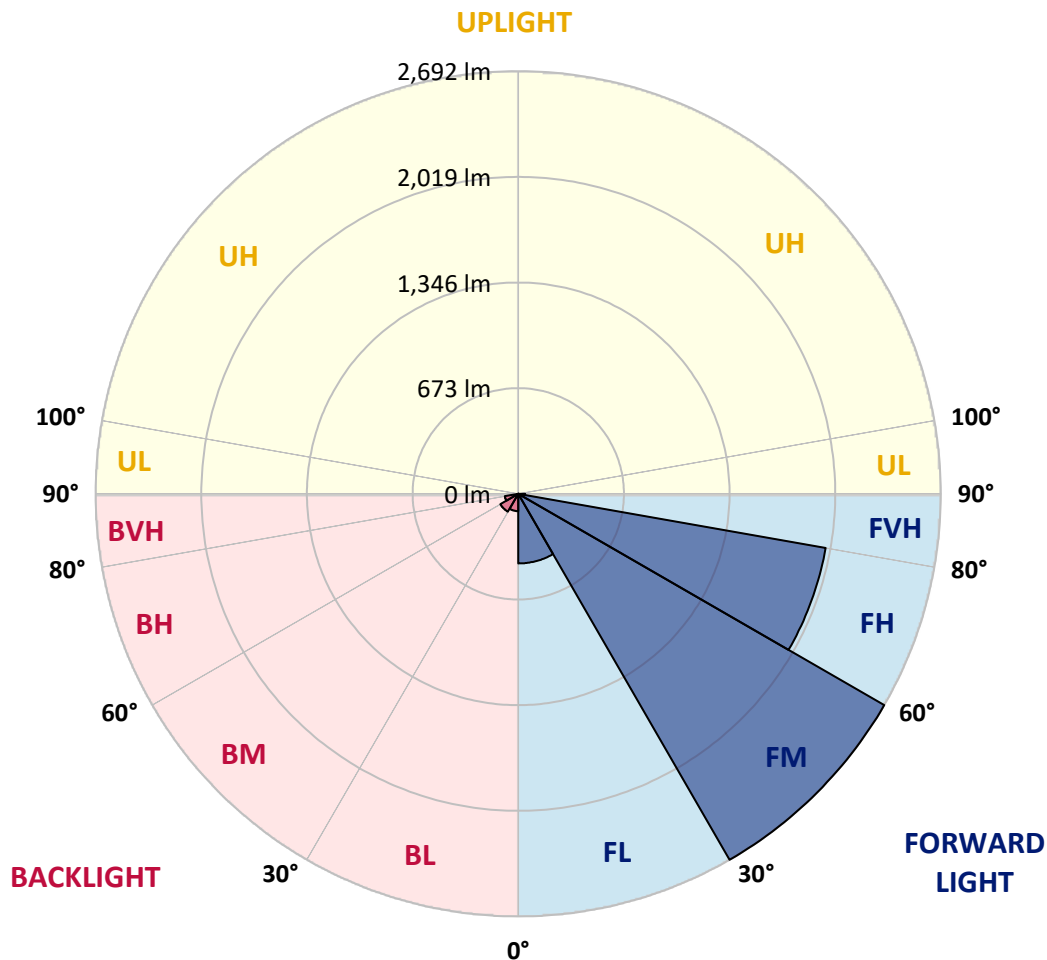


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.6	8.1			
FM (30°-60°)	2692.1	49.0			
FH (60°-80°)	1988.2	36.2			G2/5000
FVH (80°-90°)	44.3	0.8			G1/100
BL (0°-30°)	110.3	2.0	B1/500		
BM (30°-60°)	131.5	2.4	B0/220		
BH (60°-80°)	86.9	1.6	B0/110		G0/110
BVH (80°-90°)	1.1	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
2.5°	736.4	733.3	732.0	726.2	716.3	708.7	694.1	677.1	674.0	657.5	637.4
5°	832.0	829.4	827.6	819.5	809.3	790.2	763.6	732.0	726.0	694.6	654.4
7.5°	898.6	903.3	903.3	898.1	885.3	870.9	838.3	795.2	787.6	739.5	677.1
10°	937.5	943.2	947.7	952.1	950.3	944.5	913.7	865.2	856.0	792.3	703.5
12.5°	941.1	946.9	959.4	978.0	996.0	1009.0	989.7	942.7	932.3	853.4	734.8
15°	920.8	926.8	946.1	982.1	1025.8	1063.9	1070.1	1028.6	1017.9	926.3	774.0
17.5°	885.3	889.2	916.9	966.7	1035.2	1105.1	1143.0	1120.8	1110.9	1009.6	817.6
20°	858.9	861.8	886.0	939.6	1029.4	1131.0	1211.9	1218.7	1208.3	1098.9	864.9
22.5°	904.1	909.3	910.1	935.4	1013.7	1143.8	1272.5	1315.1	1307.3	1193.7	911.4
25°	1027.6	1033.6	1013.7	998.1	1027.1	1149.5	1324.5	1413.8	1407.5	1295.8	958.1
27.5°	1190.8	1197.1	1171.5	1124.7	1096.8	1171.2	1370.7	1514.1	1513.8	1403.9	1008.5
30°	1351.1	1357.4	1331.3	1284.5	1220.3	1232.6	1410.7	1619.1	1620.6	1515.4	1062.1
32.5°	1519.3	1527.1	1500.2	1440.2	1373.1	1338.6	1466.8	1724.6	1733.4	1644.7	1122.4
35°	1710.5	1711.5	1673.6	1610.7	1533.4	1480.4	1556.9	1842.9	1864.0	1804.7	1198.9
37.5°	1898.0	1905.5	1874.5	1775.2	1704.2	1644.1	1690.9	1990.7	2020.7	2000.3	1298.9
40°	2036.9	2052.8	2048.4	1941.3	1873.9	1831.1	1857.2	2166.4	2204.5	2228.0	1425.0
42.5°	2124.1	2136.1	2156.5	2092.0	2030.9	2037.9	2053.6	2371.1	2418.2	2487.6	1570.0
45°	2224.1	2229.9	2246.8	2218.4	2177.1	2248.1	2262.0	2601.7	2651.1	2766.8	1730.8
47.5°	2346.3	2359.9	2364.6	2338.5	2319.7	2434.1	2462.8	2811.4	2880.6	3065.8	1901.1
50°	2502.0	2505.6	2513.7	2496.8	2478.0	2593.9	2643.0	3031.6	3094.5	3365.8	2069.0
52.5°	2654.2	2667.3	2695.5	2684.8	2677.2	2730.0	2803.6	3230.0	3300.3	3616.0	2236.7
55°	2698.1	2709.3	2806.7	2873.3	2934.9	2897.6	2957.1	3407.9	3483.9	3839.5	2398.0
57.5°	2522.9	2545.6	2714.3	2887.7	3143.3	3158.2	3168.1	3590.4	3658.6	4010.8	2566.0
60°	2080.0	2084.4	2361.2	2658.7	3108.9	3385.7	3476.3	3786.5	3843.7	4170.4	2767.0
62.5°	1322.9	1368.1	1671.8	2091.7	2744.3	3352.8	3848.9	4083.2	4104.1	4361.8	3055.3
65°	630.1	659.4	878.2	1292.4	1987.8	2931.6	4106.2	4619.8	4629.2	4741.2	3440.5
67.5°	348.9	363.0	467.2	695.7	1162.1	2073.2	4002.2	5255.4	5264.3	5128.8	3778.4
69°	272.9	284.9	366.9	524.4	787.9	1490.1	3621.7	5441.6	5468.0	5239.8	3790.4
70°	231.6	243.4	316.0	442.9	633.5	1151.4	3223.8	5395.4	5423.3	5229.3	3700.9
72.5°	141.8	148.6	210.5	311.8	424.6	579.2	1988.1	4562.9	4610.2	4796.9	3180.7
75°	95.6	99.2	131.6	215.2	303.7	298.2	1032.8	3216.2	3318.6	3731.4	2349.2
77.5°	68.4	71.8	88.3	139.2	212.8	196.9	467.7	1998.8	2020.7	2238.0	1281.1
80°	38.9	42.0	62.4	82.8	144.4	131.4	185.9	954.7	965.7	959.7	427.7
82.5°	20.4	23.0	34.2	54.6	92.7	85.9	77.3	319.6	321.2	267.1	93.7
85°	3.9	4.7	17.0	37.3	47.8	37.3	31.6	74.9	76.5	67.6	23.2
87.5°	0.0	0.3	6.8	8.4	9.4	9.7	10.2	14.6	15.7	21.2	6.3
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°	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
2.5°	628.6	619.2	601.1	580.3	564.1	548.1	535.6	522.5	517.8	515.5	515.2
5°	634.8	615.0	576.9	537.7	505.6	475.3	453.6	433.0	423.3	418.9	417.0
7.5°	645.3	613.4	552.0	492.2	446.0	408.2	378.1	355.7	344.4	339.7	337.9
10°	657.5	611.3	523.1	444.2	385.2	346.0	316.2	294.0	281.8	276.5	273.9
12.5°	671.9	607.7	489.6	395.6	333.2	294.0	258.0	230.6	216.5	210.5	207.6
15°	689.7	604.0	454.6	349.9	287.5	239.7	200.3	181.8	178.9	177.8	178.1
17.5°	707.2	598.3	416.5	304.7	239.5	187.2	167.1	166.1	166.6	166.6	166.6
20°	722.8	585.2	375.0	266.1	193.8	158.0	153.8	152.0	150.7	149.6	148.3
22.5°	735.1	567.7	335.0	227.7	158.3	144.7	138.1	132.4	127.7	124.6	123.0
25°	743.5	544.5	298.5	190.9	142.3	131.6	119.9	110.2	102.9	98.4	96.6
27.5°	749.7	519.4	265.8	159.8	131.4	116.5	101.1	89.6	82.0	78.1	76.5
30°	754.2	490.9	237.1	140.5	119.1	100.5	84.1	72.9	67.4	65.3	64.2
32.5°	758.3	459.3	210.0	131.4	107.6	85.9	70.5	61.9	58.5	55.9	55.1
35°	768.8	430.1	184.1	121.7	95.8	73.4	60.6	54.3	50.9	49.4	48.8
37.5°	793.6	408.4	159.3	111.8	84.1	63.5	53.0	48.6	45.4	43.9	43.3
40°	833.6	397.5	138.4	101.1	72.6	55.9	48.0	43.9	40.5	38.1	37.6
42.5°	892.3	399.0	123.8	90.4	63.5	49.9	43.3	38.4	34.7	32.6	32.1
45°	963.6	410.5	113.6	79.9	55.9	45.2	38.1	32.9	29.5	27.7	27.2
47.5°	1040.9	429.1	105.2	70.5	49.9	40.7	32.9	27.4	24.5	23.0	22.7
50°	1122.4	447.1	96.6	61.4	44.7	36.3	27.7	22.7	20.4	19.1	18.5
52.5°	1204.9	468.0	88.8	53.0	40.2	31.1	23.0	18.5	16.7	15.7	15.1
55°	1293.7	483.6	81.2	46.5	35.8	26.4	19.1	15.4	13.8	12.5	12.3
57.5°	1398.1	507.9	73.4	40.2	30.6	21.9	15.7	12.3	11.0	9.7	9.4
60°	1539.2	536.4	65.0	35.5	25.1	18.0	12.8	9.9	8.4	7.3	7.1
62.5°	1725.1	568.0	54.6	31.1	20.4	14.6	10.2	7.8	6.0	4.7	4.7
65°	1960.9	619.4	44.7	26.1	16.7	12.0	7.8	5.7	3.4	2.1	2.1
67.5°	2098.5	628.3	36.0	21.4	13.6	10.2	6.5	3.9	1.0	0.3	0.0
69°	2054.4	576.9	30.6	18.3	11.8	9.7	6.0	2.9	0.5	0.0	0.0
70°	1971.3	527.5	26.9	16.2	10.7	9.1	5.7	2.1	0.5	0.0	0.0
72.5°	1629.0	375.5	20.4	12.0	7.8	8.1	5.2	1.3	0.5	0.0	0.0
75°	1186.6	228.2	14.6	8.4	5.0	6.0	3.7	0.5	0.3	0.0	0.0
77.5°	660.2	107.6	9.1	4.7	3.1	3.7	1.8	0.0	0.0	0.0	0.0
80°	214.4	29.2	4.2	2.6	1.8	2.1	0.8	0.0	0.0	0.0	0.0
82.5°	39.7	8.4	2.4	1.3	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.6	3.4	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.0	0.3	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)