

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: P387066

Luminaire Tested: GAW-SA2D-735-U-T2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387066
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-SA2D-735-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 10820.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

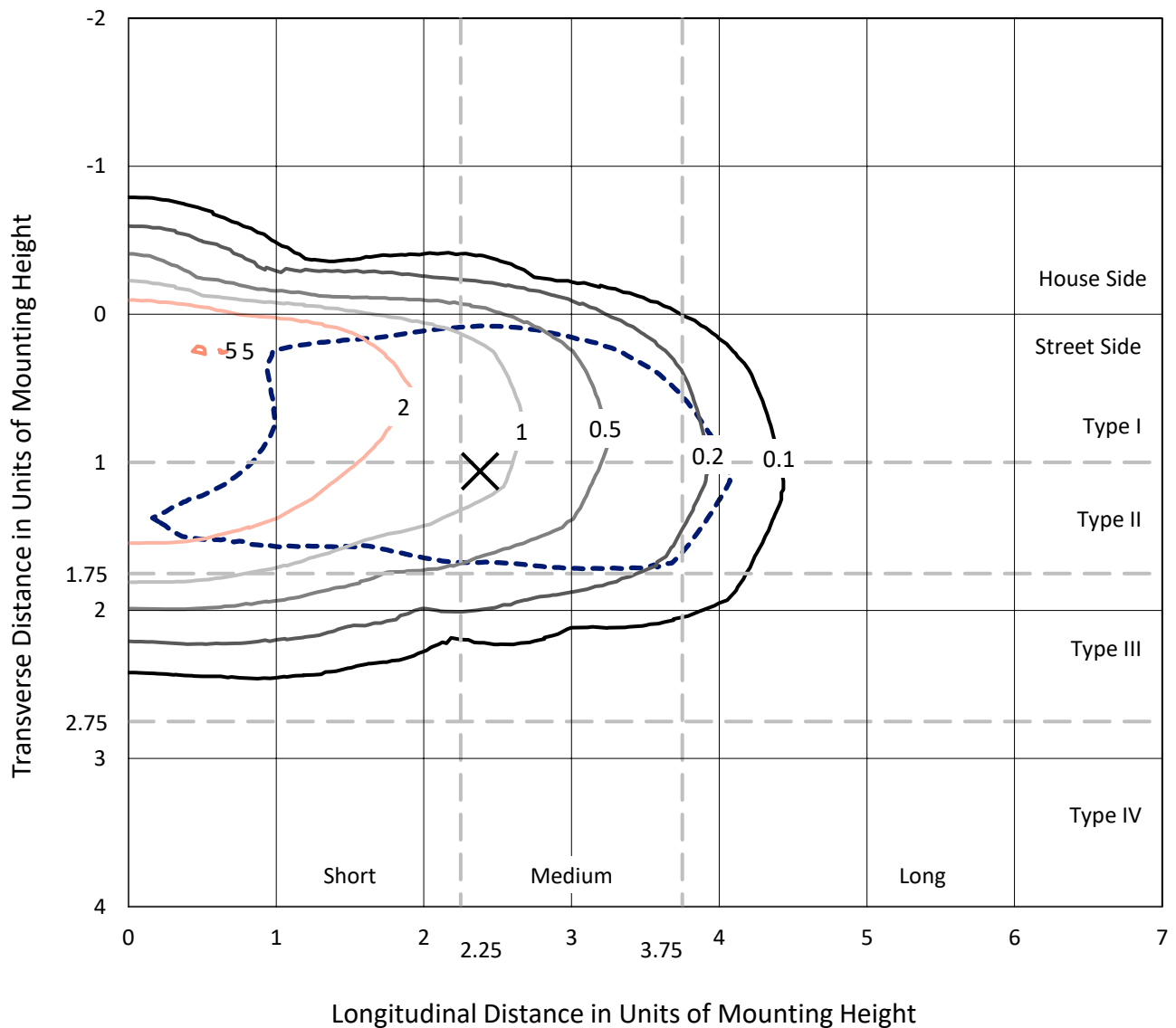
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

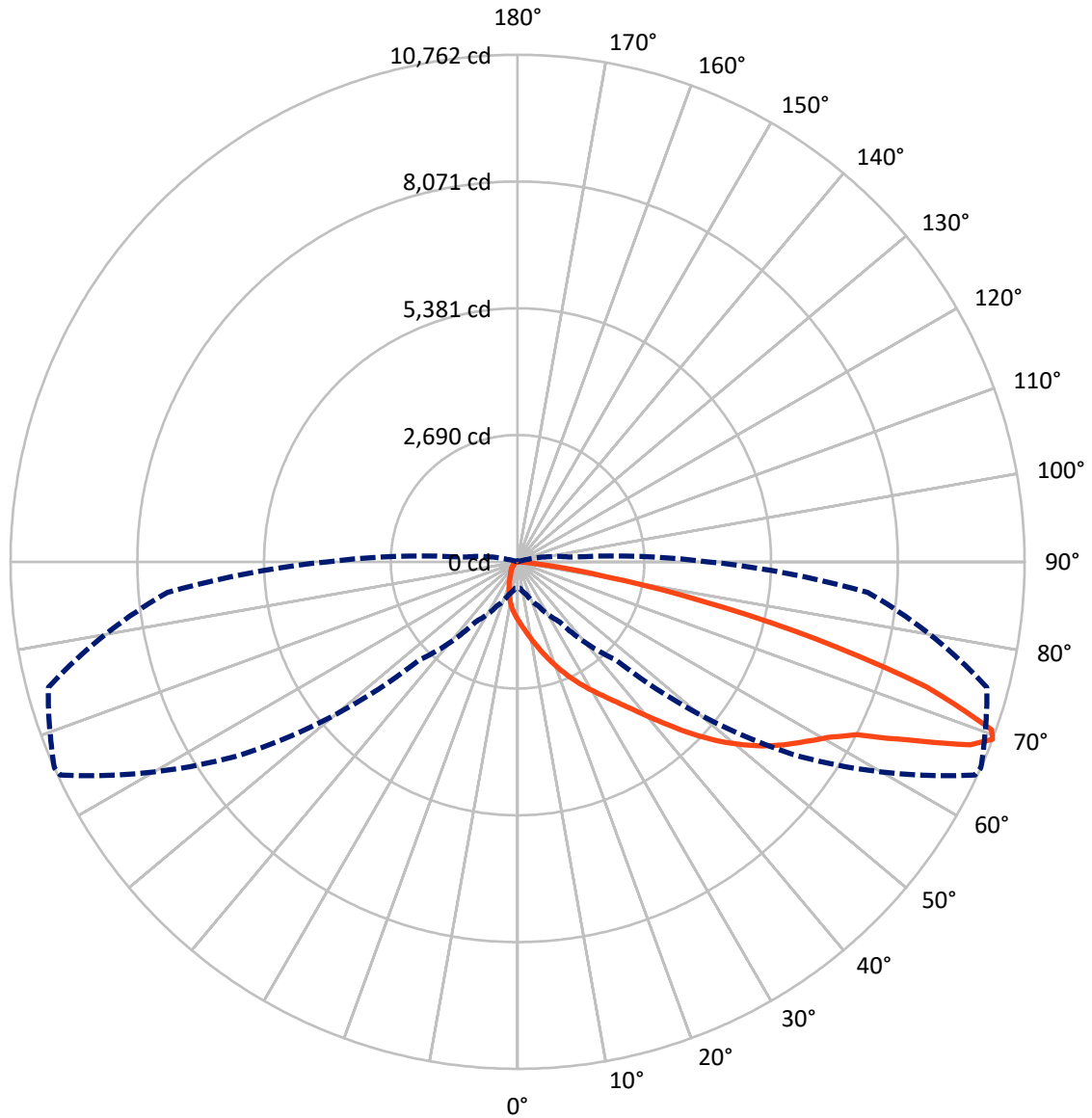
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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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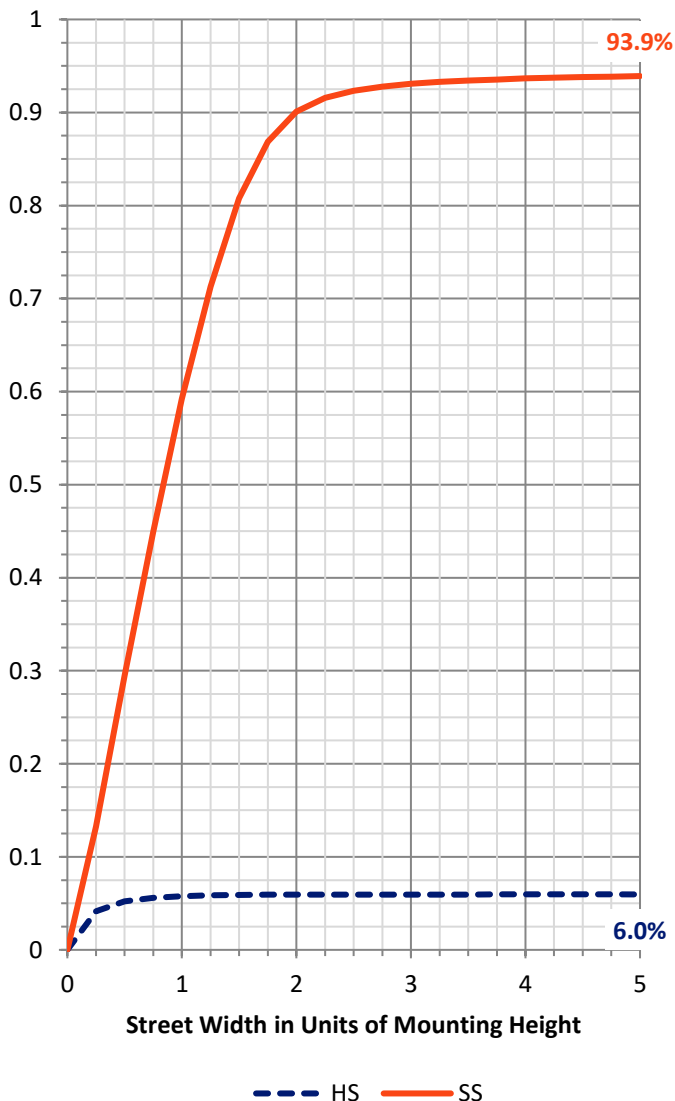
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	649.1	0.0	649.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	10171.8	0.0	10171.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	10820.9	0.0	10820.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.1
10°-20°	354.3	3.3
20°-30°	616.9	5.7
30°-40°	1082.4	10.0
40°-50°	1811.7	16.7
50°-60°	2663.1	24.6
60°-70°	2734.3	25.3
70°-80°	1349.9	12.5
80°-90°	89.2	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°	10820.9	100.0
0°-180°	10820.9	100.0

Coefficient of Utilization

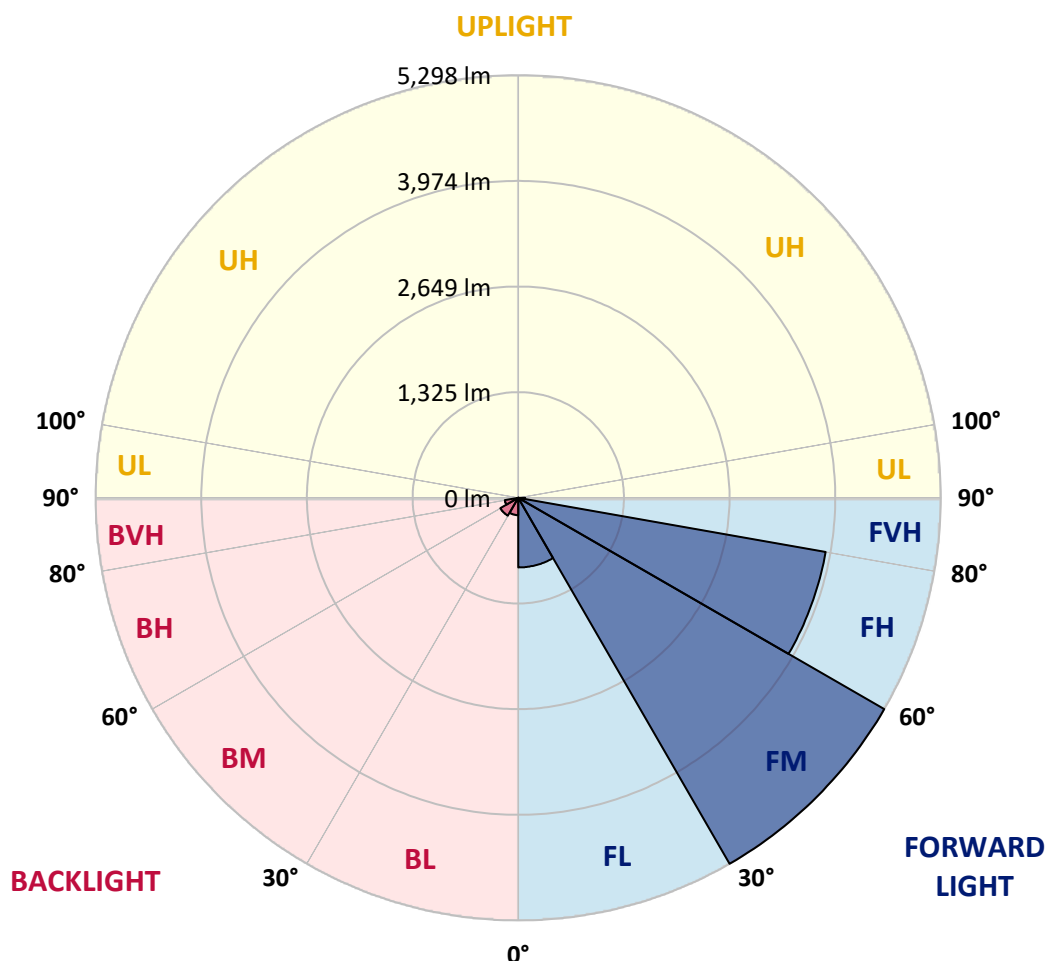


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.1	8.1			
FM (30°-60°)	5298.4	49.0			
FH (60°-80°)	3913.1	36.2			G2/5000
FVH (80°-90°)	87.1	0.8			G1/100
BL (0°-30°)	217.1	2.0	B1/500		
BM (30°-60°)	258.8	2.4	B1/1000		
BH (60°-80°)	171.1	1.6	B1/500		G1/500
BVH (80°-90°)	2.2	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°	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5
2.5°	1449.4	1443.2	1440.7	1429.3	1409.7	1394.9	1366.1	1332.7	1326.5	1294.1	1254.6
5°	1637.5	1632.4	1628.7	1612.8	1592.7	1555.3	1502.8	1440.7	1428.8	1367.1	1288.0
7.5°	1768.5	1777.8	1777.8	1767.5	1742.3	1714.0	1649.9	1565.0	1550.1	1455.5	1332.7
10°	1845.2	1856.4	1865.2	1873.9	1870.3	1859.0	1798.4	1702.7	1684.8	1559.4	1384.6
12.5°	1852.3	1863.7	1888.3	1924.8	1960.2	1986.0	1947.9	1855.4	1834.8	1679.6	1446.3
15°	1812.2	1824.0	1862.1	1933.0	2018.9	2093.9	2106.2	2024.5	2003.4	1823.0	1523.4
17.5°	1742.3	1750.0	1804.5	1902.6	2037.4	2175.1	2249.6	2205.9	2186.3	1987.0	1609.2
20°	1690.4	1696.1	1743.9	1849.2	2026.0	2226.0	2385.3	2398.6	2378.1	2162.8	1702.3
22.5°	1779.3	1789.6	1791.1	1841.0	1995.2	2251.2	2504.5	2588.3	2572.9	2349.3	1793.7
25°	2022.4	2034.3	1995.2	1964.4	2021.4	2262.4	2606.8	2782.6	2770.3	2550.3	1885.7
27.5°	2343.7	2356.0	2305.6	2213.6	2158.6	2305.1	2697.8	2979.9	2979.5	2763.0	1984.9
30°	2659.2	2671.5	2620.2	2528.2	2401.7	2425.9	2776.4	3186.5	3189.6	2982.5	2090.2
32.5°	2990.2	3005.7	2952.7	2834.5	2702.4	2634.5	2886.9	3394.2	3411.7	3237.0	2209.0
35°	3366.4	3368.5	3294.0	3170.1	3018.0	2913.6	3064.2	3627.0	3668.6	3551.9	2359.6
37.5°	3735.5	3750.3	3689.2	3493.9	3354.1	3235.9	3327.9	3917.9	3977.0	3936.9	2556.5
40°	4008.9	4040.2	4031.5	3820.8	3688.2	3603.9	3655.3	4263.8	4338.9	4385.1	2804.7
42.5°	4180.6	4204.2	4244.3	4117.4	3997.1	4010.9	4041.8	4666.7	4759.3	4896.0	3089.9
45°	4377.4	4388.8	4422.1	4366.1	4284.9	4424.7	4452.0	5120.6	5217.8	5445.4	3406.5
47.5°	4618.0	4644.6	4653.9	4602.6	4565.5	4790.6	4847.2	5533.3	5669.5	6033.9	3741.6
50°	4924.3	4931.4	4947.4	4914.0	4877.0	5105.1	5201.8	5966.6	6090.5	6624.4	4072.1
52.5°	5223.9	5249.6	5305.1	5284.0	5269.2	5373.0	5517.9	6357.2	6495.4	7116.8	4402.1
55°	5310.2	5332.4	5524.0	5655.2	5776.4	5702.9	5820.1	6707.2	6856.7	7556.8	4719.7
57.5°	4965.4	5010.1	5342.1	5683.4	6186.6	6215.9	6235.4	7066.5	7200.5	7893.9	5050.2
60°	4093.7	4102.4	4647.3	5232.6	6118.7	6663.5	6841.9	7452.4	7565.0	8208.0	5445.9
62.5°	2603.7	2692.7	3290.4	4116.8	5401.2	6598.8	7575.3	8036.3	8077.4	8584.7	6013.3
65°	1240.2	1297.8	1728.5	2543.6	3912.3	5769.8	8081.5	9092.5	9111.0	9331.5	6771.4
67.5°	686.7	714.4	919.5	1369.2	2287.1	4080.4	7877.0	10343.5	10361.0	10094.2	7436.5
69°	537.1	560.7	722.1	1032.0	1550.7	2932.7	7128.1	10709.9	10761.8	10312.7	7460.1
70°	455.9	479.0	621.9	871.7	1246.9	2266.1	6344.9	10618.9	10674.0	10292.1	7283.9
72.5°	279.1	292.4	414.3	613.7	835.7	1140.0	3912.8	8980.4	9073.5	9440.9	6260.0
75°	188.1	195.3	259.0	423.5	597.7	586.9	2032.8	6329.9	6531.4	7344.0	4623.6
77.5°	134.6	141.4	173.7	273.9	418.9	387.5	920.5	3933.9	3977.0	4404.6	2521.5
80°	76.6	82.8	122.9	162.9	284.3	258.5	365.9	1879.1	1900.6	1888.8	841.9
82.5°	40.1	45.2	67.4	107.4	182.4	169.1	152.1	629.1	632.2	525.8	184.5
85°	7.7	9.2	33.4	73.5	94.0	73.5	62.2	147.5	150.6	133.1	45.7
87.5°	0.0	0.5	13.3	16.4	18.5	19.0	20.0	28.7	30.8	41.6	12.3
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°	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5	1231.5
2.5°	1237.1	1218.6	1183.2	1142.0	1110.2	1078.8	1054.1	1028.4	1019.1	1014.5	1014.1
5°	1249.4	1210.4	1135.4	1058.2	995.0	935.4	892.7	852.1	833.1	824.4	820.8
7.5°	1270.0	1207.3	1086.5	968.8	877.9	803.3	744.2	700.0	678.0	668.7	665.1
10°	1294.1	1203.2	1029.5	874.3	758.1	681.0	622.4	578.8	554.5	544.3	539.1
12.5°	1322.4	1195.9	963.6	778.7	655.8	578.8	507.8	453.8	426.1	414.3	408.6
15°	1357.3	1188.8	894.8	688.7	565.9	471.9	394.2	357.7	352.1	350.0	350.5
17.5°	1391.8	1177.5	819.8	599.8	471.3	368.5	329.0	326.9	327.9	327.9	327.9
20°	1422.6	1151.8	738.1	523.7	381.4	310.9	302.8	299.1	296.6	294.5	292.0
22.5°	1446.8	1117.3	659.5	448.2	311.5	284.7	271.9	260.6	251.3	245.2	242.1
25°	1463.3	1071.6	587.5	375.7	280.1	259.0	235.9	216.9	202.5	193.8	190.1
27.5°	1475.6	1022.2	523.2	314.5	258.5	229.2	198.9	176.3	161.4	153.7	150.6
30°	1484.3	966.3	466.7	276.6	234.4	197.8	165.5	143.4	132.6	128.5	126.4
32.5°	1492.5	904.1	413.2	258.5	211.7	169.1	138.7	121.8	115.2	110.0	108.4
35°	1513.1	846.5	362.3	239.5	188.6	144.4	119.2	106.9	100.2	97.1	96.1
37.5°	1561.9	803.8	313.5	220.0	165.5	124.9	104.4	95.6	89.4	86.3	85.3
40°	1640.6	782.2	272.4	198.9	142.9	110.0	94.6	86.3	79.7	75.1	74.0
42.5°	1756.2	785.3	243.6	177.8	124.9	98.2	85.3	75.5	68.4	64.3	63.2
45°	1896.5	808.0	223.6	157.3	110.0	89.0	75.1	64.7	58.1	54.5	53.5
47.5°	2048.6	844.4	207.1	138.7	98.2	80.2	64.7	53.9	48.3	45.2	44.7
50°	2209.0	879.9	190.1	120.8	87.9	71.4	54.5	44.7	40.1	37.5	36.4
52.5°	2371.4	921.0	174.7	104.4	79.2	61.2	45.2	36.4	32.9	30.8	29.8
55°	2546.1	951.9	159.9	91.5	70.5	51.9	37.5	30.3	27.2	24.7	24.1
57.5°	2751.8	999.6	144.4	79.2	60.1	43.2	30.8	24.1	21.6	19.0	18.5
60°	3029.3	1055.7	127.9	69.9	49.3	35.5	25.2	19.5	16.4	14.4	13.9
62.5°	3395.3	1117.9	107.4	61.2	40.1	28.7	20.0	15.4	11.8	9.2	9.2
65°	3859.3	1219.1	87.9	51.4	32.9	23.7	15.4	11.3	6.7	4.1	4.1
67.5°	4130.2	1236.6	70.9	42.2	26.8	20.0	12.9	7.7	2.1	0.5	0.0
69°	4043.3	1135.4	60.1	36.0	23.1	19.0	11.8	5.6	1.0	0.0	0.0
70°	3879.9	1038.2	53.0	31.8	21.0	17.9	11.3	4.1	1.0	0.0	0.0
72.5°	3206.1	739.1	40.1	23.7	15.4	16.0	10.2	2.5	1.0	0.0	0.0
75°	2335.4	449.2	28.7	16.4	9.8	11.8	7.2	1.0	0.5	0.0	0.0
77.5°	1299.3	211.7	17.9	9.2	6.2	7.2	3.6	0.0	0.0	0.0	0.0
80°	422.0	57.6	8.3	5.2	3.6	4.1	1.5	0.0	0.0	0.0	0.0
82.5°	78.2	16.4	4.6	2.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	17.0	6.7	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.1	0.5	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)