

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P649698

Luminaire Tested: **GLAN-SA1A-835-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-835-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3546.2 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

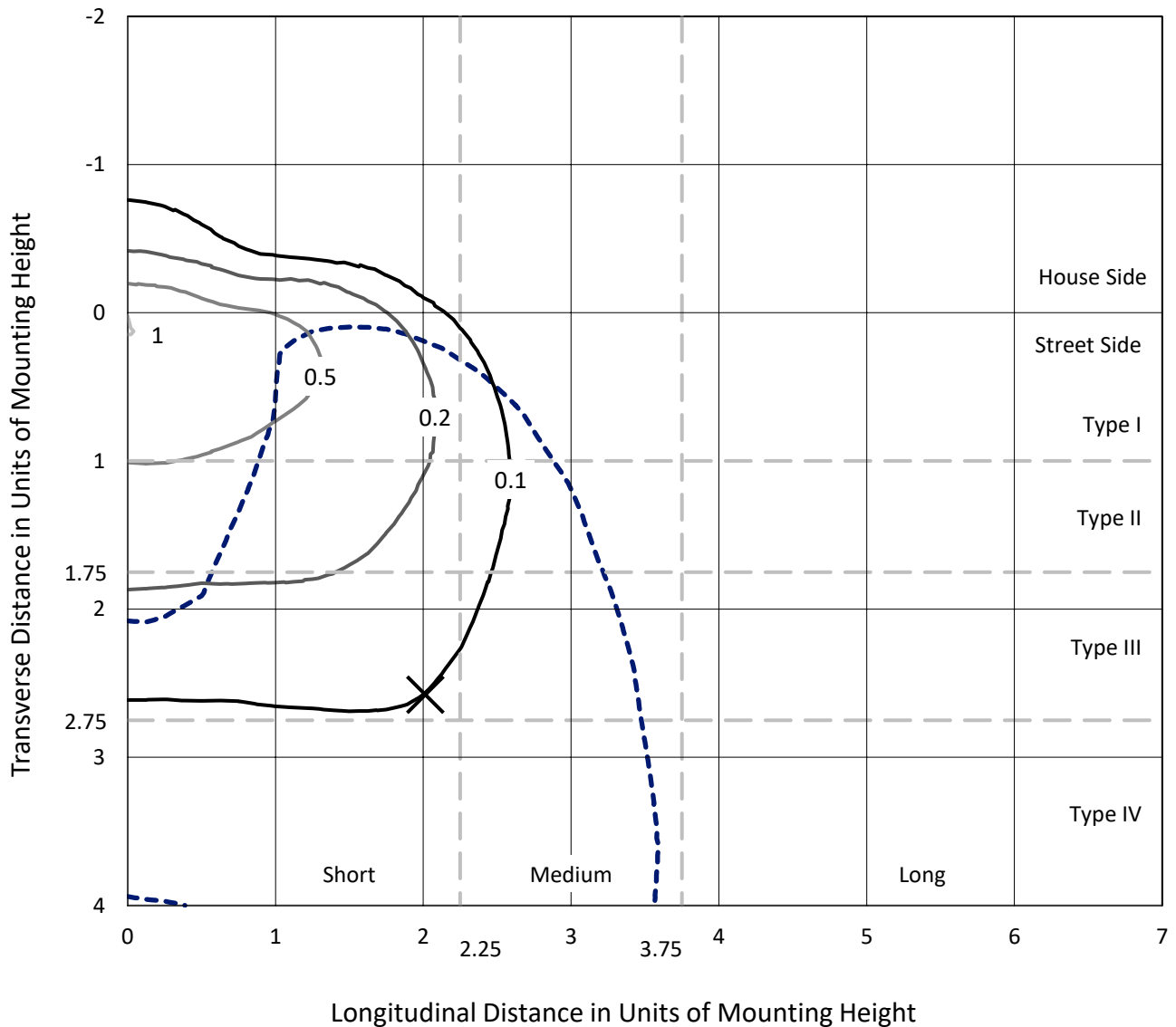
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

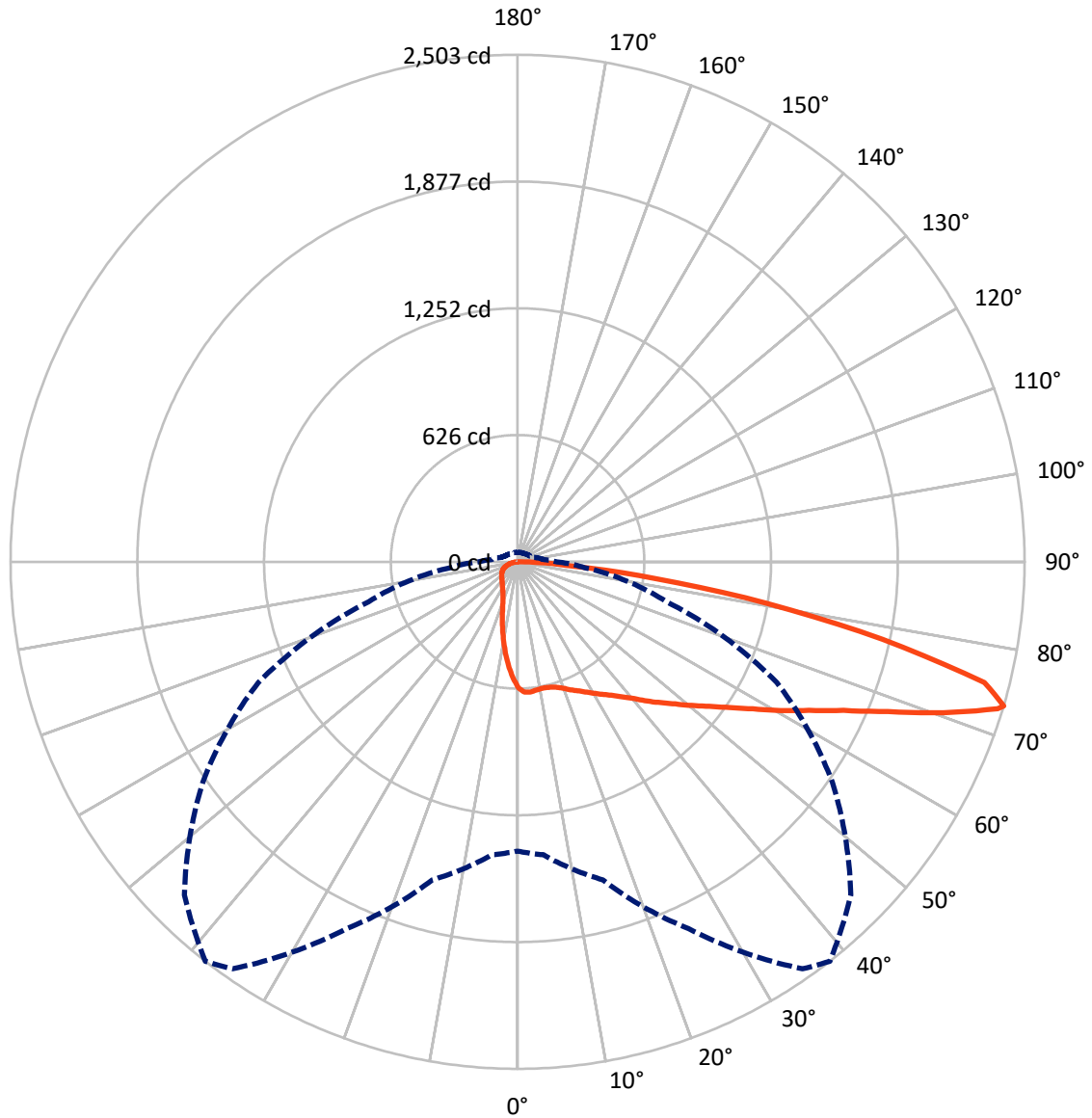
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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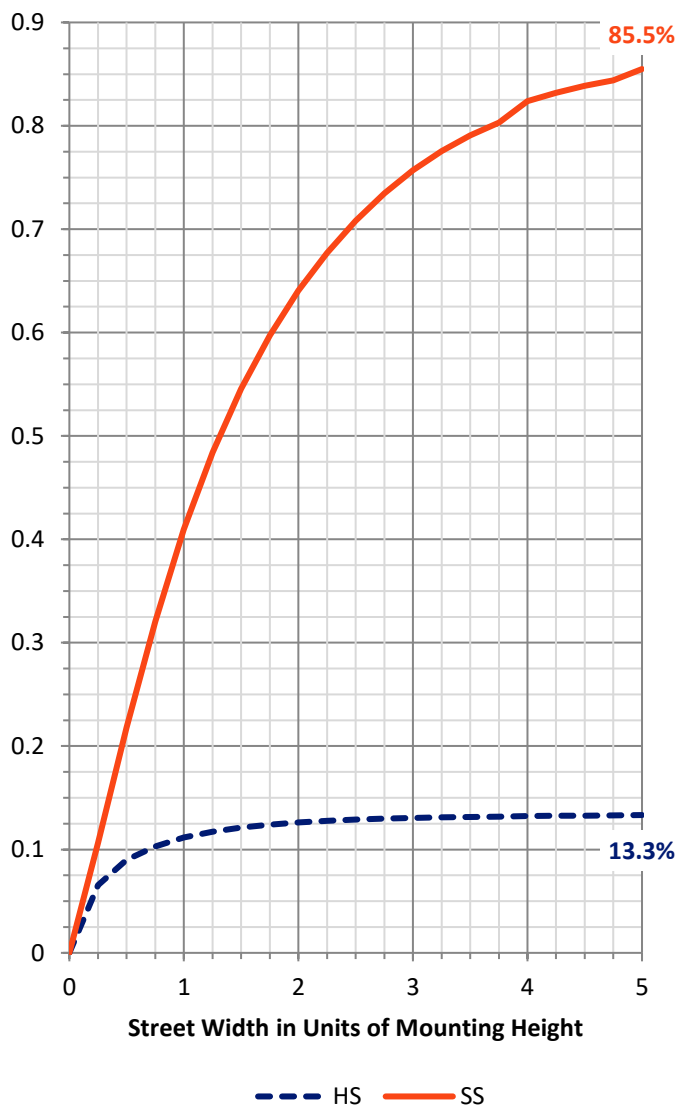
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	476.7	0.0	476.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	3069.5	0.0	3069.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	3546.2	0.0	3546.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	1.5
10°-20°	139.5	3.9
20°-30°	217.2	6.1
30°-40°	318.5	9.0
40°-50°	472.5	13.3
50°-60°	669.4	18.9
60°-70°	849.2	23.9
70°-80°	706.9	19.9
80°-90°	118.8	3.3
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°	3546.2	100.0
0°-180°	3546.2	100.0

**Coefficient of Utilization**

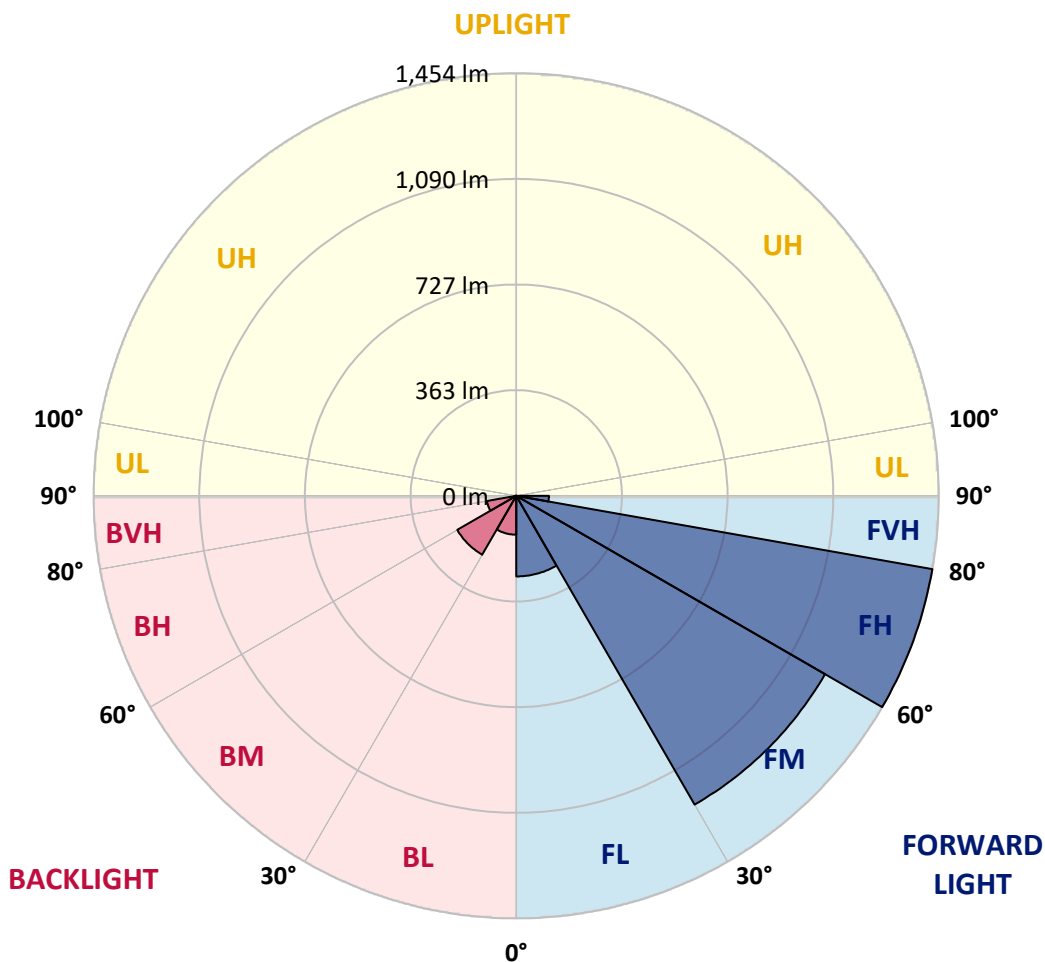


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.2	7.8			
FM (30°-60°)	1226.4	34.6			
FH (60°-80°)	1453.6	41.0			G1/1800
FVH (80°-90°)	112.3	3.2			G2/225
BL (0°-30°)	133.8	3.8	B1/500		
BM (30°-60°)	234.0	6.6	B1/1000		
BH (60°-80°)	102.5	2.9	B0/110		G0/110
BVH (80°-90°)	6.4	0.2			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°	35°	38°	45°	55°	65°	75°	85°
0°	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
2.5°	648.0	651.2	649.7	647.5	646.1	644.6	642.6	636.8	632.2	627.2	619.4
5°	652.9	654.8	653.4	650.7	647.5	646.1	642.2	634.6	627.2	618.8	607.2
7.5°	650.0	650.8	649.3	645.8	643.0	640.4	636.0	627.7	618.6	608.4	593.2
10°	640.0	643.0	643.0	640.3	637.4	636.0	631.6	623.6	615.4	603.8	585.8
12.5°	631.8	635.0	637.6	636.8	636.7	636.7	633.2	627.2	617.6	606.6	585.1
15°	626.2	630.0	635.6	638.8	640.8	641.4	640.0	634.9	625.0	612.2	587.6
17.5°	625.0	629.6	639.9	646.8	652.1	651.8	651.5	644.3	633.4	620.2	590.5
20°	630.4	636.4	650.7	661.6	669.2	667.9	665.6	656.2	643.6	628.8	593.4
22.5°	646.6	652.9	668.4	680.5	687.9	687.9	681.3	668.8	655.4	638.8	597.2
25°	669.9	676.7	693.3	705.5	708.9	706.3	699.7	684.7	669.2	653.3	605.2
27.5°	698.3	706.5	721.9	732.2	731.2	729.1	722.3	703.1	687.7	673.1	618.8
30°	733.7	739.8	755.8	758.2	754.6	754.2	744.6	725.4	710.9	699.7	638.2
32.5°	767.2	772.6	785.4	786.4	780.0	780.8	771.8	754.2	746.0	742.0	670.9
35°	802.7	805.5	816.4	815.3	811.0	810.5	806.9	790.0	792.6	799.8	717.1
37.5°	832.3	837.9	844.1	845.1	844.9	846.9	849.3	841.3	856.3	878.9	777.8
40°	859.5	864.4	873.5	876.7	884.6	888.5	896.8	896.9	931.6	968.9	852.5
42.5°	878.0	886.1	903.3	909.1	928.2	940.2	952.4	965.4	1015.7	1063.5	940.6
45°	894.0	904.8	933.4	951.4	977.3	991.9	1017.7	1045.0	1117.3	1179.9	1030.1
47.5°	918.2	927.8	960.7	992.5	1031.5	1048.4	1087.0	1127.7	1222.2	1290.9	1115.9
50°	951.8	957.6	991.1	1043.0	1092.8	1114.4	1165.5	1224.2	1334.3	1400.4	1191.2
52.5°	994.9	997.3	1023.9	1093.0	1158.7	1185.5	1253.2	1321.7	1432.4	1495.5	1250.8
55°	1045.8	1041.8	1062.6	1146.1	1234.0	1269.0	1341.7	1420.4	1542.8	1572.4	1294.3
57.5°	1096.0	1089.8	1106.5	1210.6	1327.0	1369.2	1453.9	1522.2	1641.3	1644.3	1324.8
60°	1149.3	1144.7	1164.5	1286.2	1440.9	1490.9	1569.2	1627.7	1736.6	1694.4	1329.5
62.5°	1203.9	1196.6	1224.8	1371.3	1569.2	1614.7	1690.6	1739.8	1830.2	1713.0	1283.3
65°	1257.0	1253.7	1297.3	1472.5	1715.4	1767.1	1840.8	1874.3	1905.0	1685.0	1168.5
67.5°	1313.5	1320.3	1390.0	1607.5	1906.1	1971.0	2050.4	2019.0	1926.5	1552.2	984.1
70°	1399.6	1404.0	1511.7	1784.3	2151.8	2230.1	2268.5	2070.5	1823.1	1300.1	739.8
72.5°	1436.6	1456.1	1620.5	1969.9	2431.0	2478.8	2341.9	1955.7	1518.8	883.1	388.7
73°	1428.4	1451.7	1625.5	1998.2	2452.7	2503.0	2326.2	1896.7	1411.8	760.6	333.2
75°	1326.1	1354.7	1560.4	1974.6	2410.3	2380.3	2075.1	1616.5	954.0	345.9	151.8
77.5°	1046.3	1054.5	1236.4	1594.5	1898.1	1842.4	1553.0	1010.3	389.7	128.6	86.1
80°	524.8	555.1	696.9	913.4	1269.2	1251.0	980.2	477.8	162.4	75.5	57.1
82.5°	252.5	274.0	339.4	445.4	701.3	684.7	485.5	261.1	103.1	44.1	33.7
85°	162.6	178.6	216.1	212.5	288.4	275.4	218.1	197.6	61.1	23.0	23.4
87.5°	107.3	117.5	141.0	112.8	104.9	94.9	96.3	111.3	12.0	8.8	3.2
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°	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
2.5°	616.2	613.6	605.0	596.6	588.6	581.0	576.0	569.3	564.9	566.1	567.9
5°	600.8	595.0	579.7	564.9	550.9	534.3	520.9	510.0	501.8	498.8	498.2
7.5°	584.6	574.7	553.0	527.5	503.6	483.0	459.2	447.4	433.5	428.8	427.1
10°	574.7	561.6	530.9	495.4	459.6	425.3	399.5	378.5	359.5	355.9	354.1
12.5°	571.9	554.5	513.3	467.6	419.9	377.9	339.7	312.0	293.5	289.4	283.1
15°	570.3	548.7	496.8	439.6	379.1	327.8	287.6	255.3	238.5	227.3	227.5
17.5°	568.9	542.1	478.4	409.0	343.8	284.8	240.3	211.3	195.8	189.9	189.3
20°	567.0	534.3	457.2	376.7	303.6	245.5	205.3	183.6	173.2	168.2	168.0
22.5°	566.1	526.6	436.4	343.8	267.9	215.2	182.0	166.8	160.2	156.8	156.8
25°	568.1	521.2	414.5	312.6	236.3	189.4	166.0	155.6	151.8	150.0	149.4
27.5°	574.3	518.9	392.9	281.3	207.3	171.8	155.2	148.0	145.2	143.8	144.0
30°	586.2	518.7	371.7	250.6	185.6	158.4	146.6	141.6	139.4	138.6	138.4
32.5°	605.2	523.0	350.9	225.1	167.4	147.2	138.6	135.0	134.0	133.3	133.2
35°	637.4	535.5	330.2	201.9	153.4	137.2	131.0	129.2	127.8	128.3	128.6
37.5°	680.9	556.9	310.6	183.6	142.8	129.7	124.6	122.9	122.1	122.8	123.3
40°	739.2	587.8	294.2	169.0	135.1	123.6	118.9	117.5	116.7	117.8	117.9
42.5°	803.4	623.4	280.5	157.6	129.0	118.4	113.9	112.4	111.7	112.4	112.5
45°	869.5	664.8	273.6	149.4	123.8	114.6	109.9	108.1	106.7	106.3	107.0
47.5°	934.6	700.9	273.3	144.4	119.6	111.1	106.2	104.1	102.3	101.3	101.2
50°	987.7	729.5	278.2	142.2	116.0	107.3	102.3	100.3	98.0	95.9	96.3
52.5°	1027.8	748.2	280.4	141.2	113.9	103.4	98.3	96.5	93.7	91.1	91.1
55°	1053.6	752.5	275.0	140.2	112.4	99.1	93.7	92.1	89.3	86.7	86.7
57.5°	1062.4	739.0	255.5	137.8	110.7	95.5	89.1	87.7	85.5	82.9	82.5
60°	1041.9	692.9	221.5	130.6	107.5	91.7	84.1	83.5	82.7	80.5	80.3
62.5°	963.2	595.2	184.5	121.1	102.1	87.7	79.5	80.5	81.1	79.9	79.7
65°	832.3	483.2	157.6	108.1	94.9	82.1	74.5	77.1	78.7	78.7	78.3
67.5°	675.1	371.1	132.8	96.9	85.9	74.5	68.9	70.9	72.1	71.7	72.7
70°	479.8	251.3	108.1	84.1	74.5	65.9	61.7	61.7	60.9	60.4	60.4
72.5°	232.7	143.6	87.7	70.3	63.5	56.3	52.9	51.4	49.9	49.6	48.6
73°	194.4	128.8	83.7	67.7	60.9	54.9	51.1	48.9	47.8	47.1	46.8
75°	118.4	97.7	69.9	57.1	51.8	47.3	43.8	41.9	40.9	40.2	40.1
77.5°	77.9	72.9	54.3	43.7	39.6	36.9	35.5	33.4	32.8	32.0	32.0
80°	58.1	55.7	38.8	30.9	28.4	26.0	25.6	25.2	23.6	22.6	22.2
82.5°	37.4	39.6	26.5	20.6	18.0	16.1	16.2	16.8	15.2	13.8	13.4
85°	26.6	28.7	16.1	9.4	7.6	6.6	7.4	6.6	6.8	5.4	4.4
87.5°	4.4	7.6	2.8	1.2	0.6	0.4	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)