

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: P507428

Luminaire Tested: **VERD-S-CA1-20-722-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-20-722-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 430mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2578 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

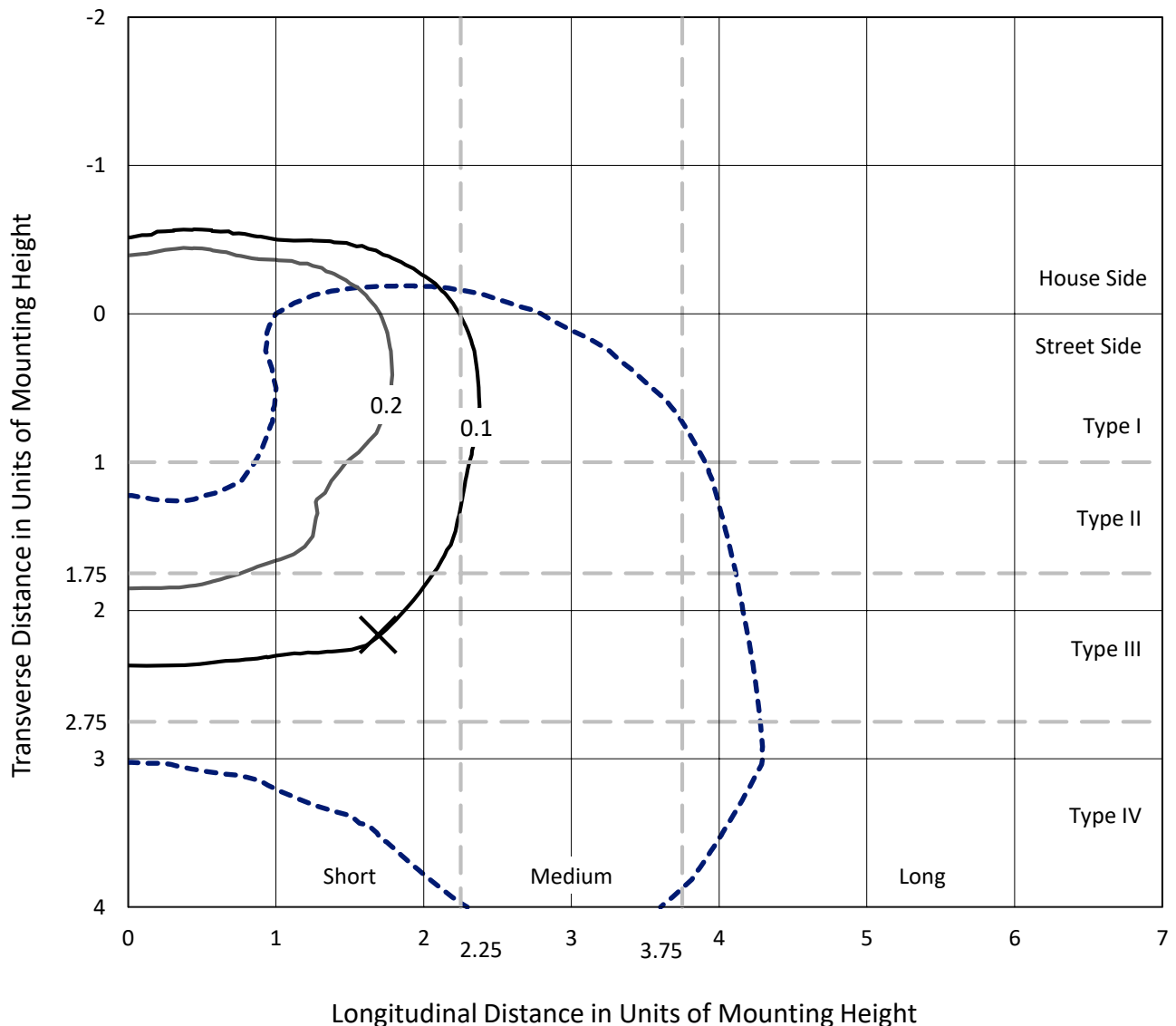
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

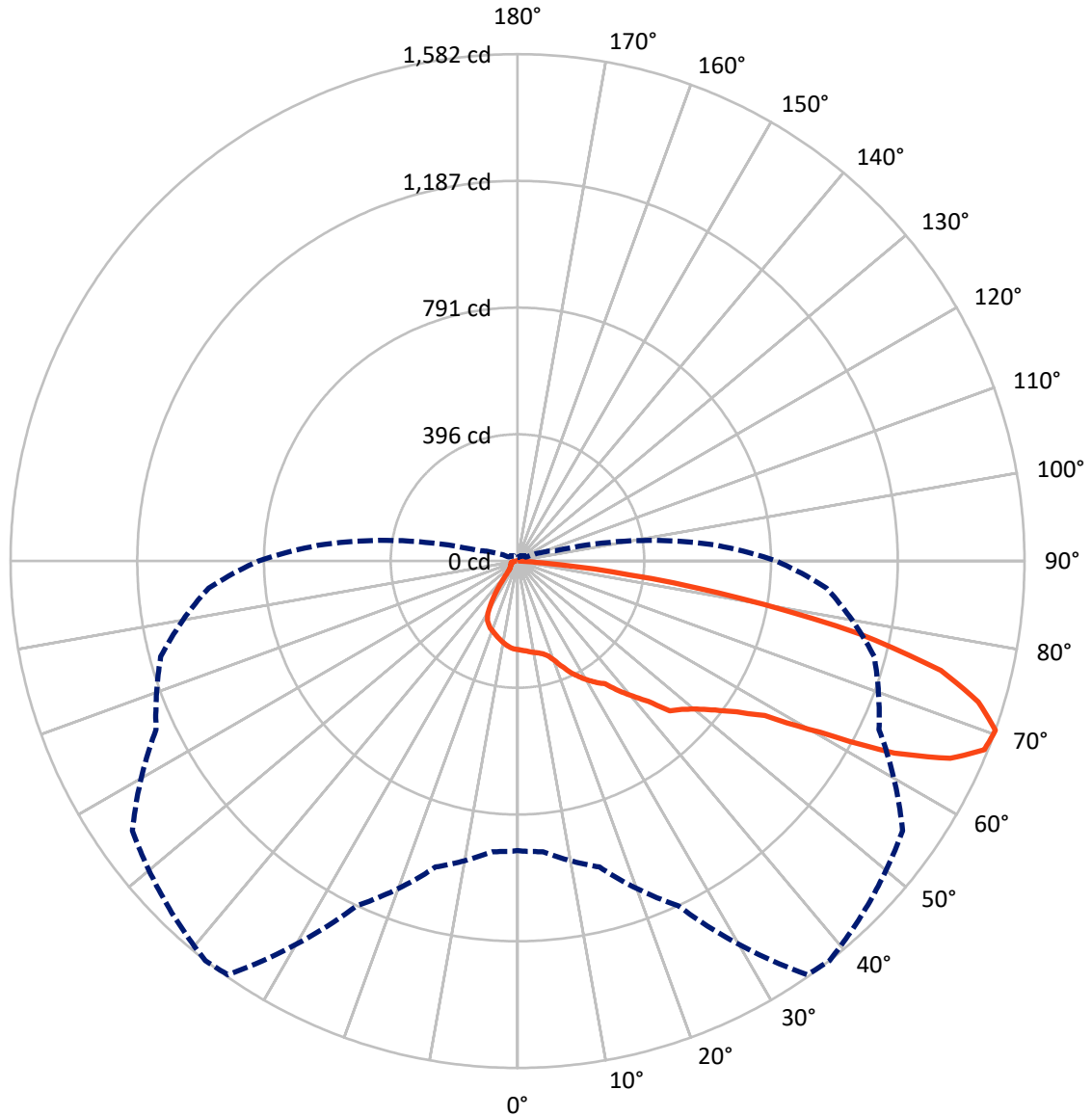
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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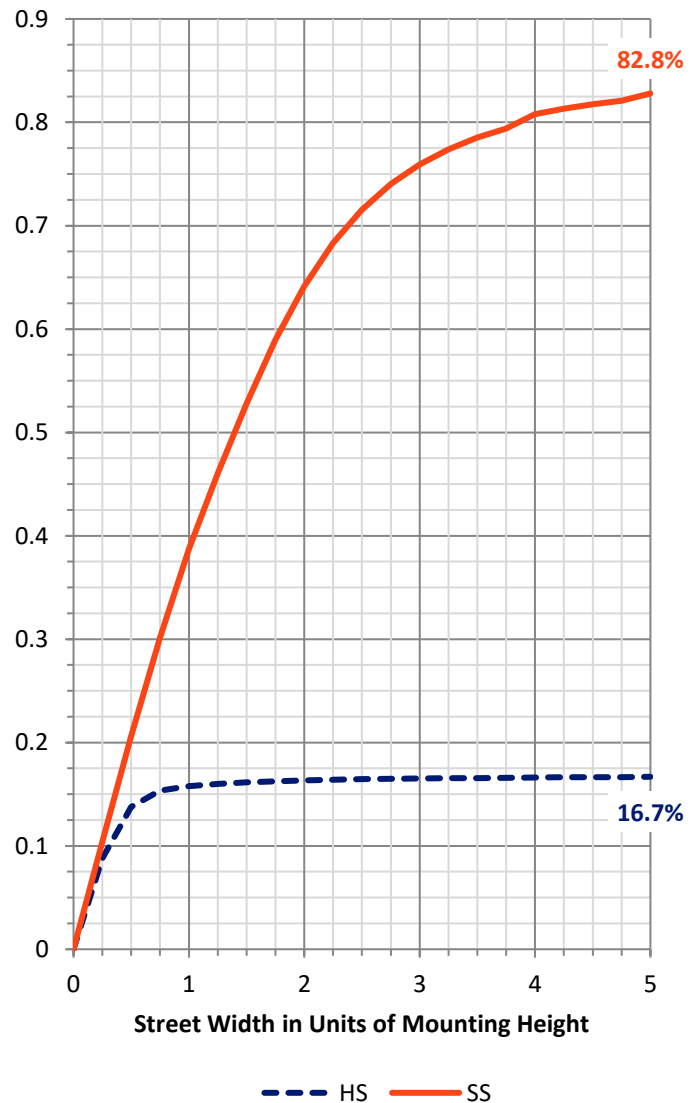
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	436.1	0.0	436.1
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	2141.9	0.0	2141.9
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	2578.0	0.0	2578.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.4	1.0
10°-20°	80.1	3.1
20°-30°	147.4	5.7
30°-40°	230.7	9.0
40°-50°	350.5	13.6
50°-60°	504.0	19.6
60°-70°	677.1	26.3
70°-80°	501.7	19.5
80°-90°	60.0	2.3
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°	2578.0	100.0
0°-180°	2578.0	100.0



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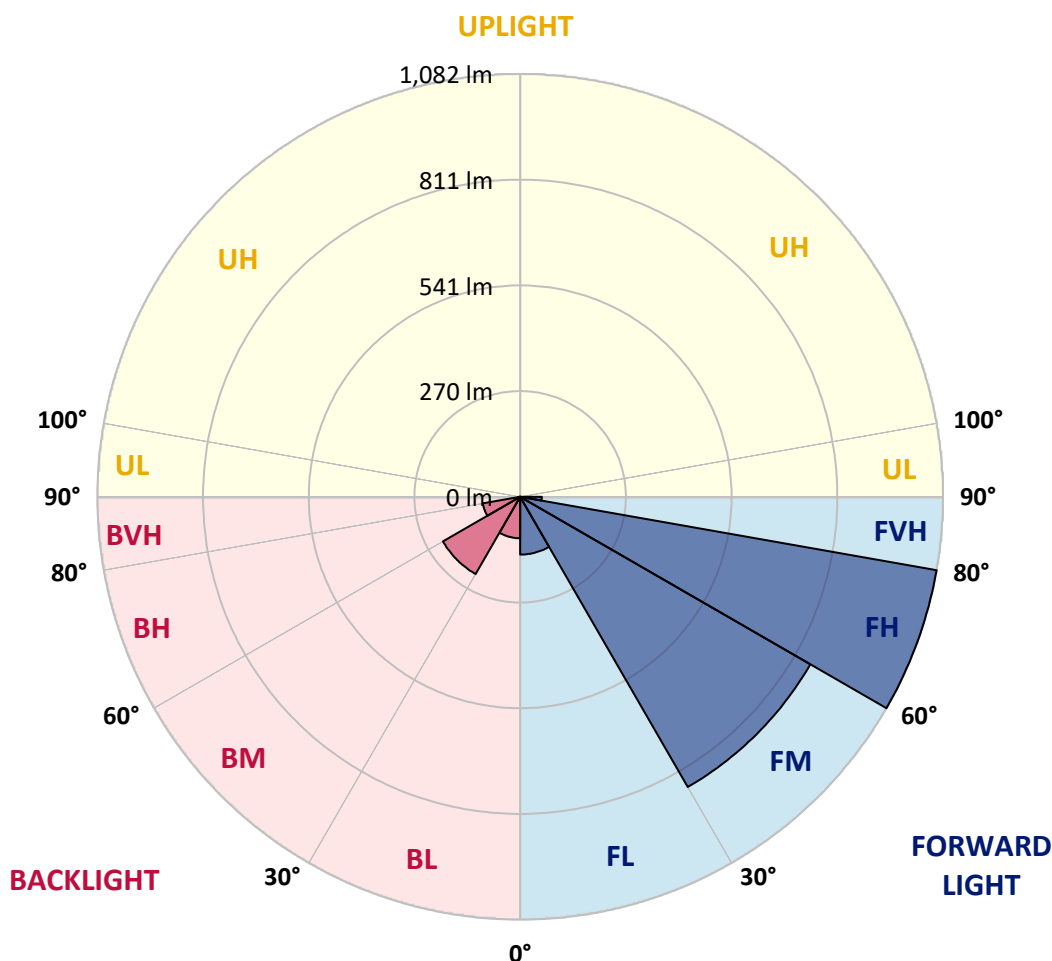
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.8	5.7			
FM	(30°-60°)	857.2	33.2			
FH	(60°-80°)	1081.7	42.0			G1/1800
FVH	(80°-90°)	55.2	2.1			G1/100
BL	(0°-30°)	106.1	4.1	B0/110		
BM	(30°-60°)	228.1	8.8	B1/1000		
BH	(60°-80°)	97.1	3.8	B0/110		G0/110
BVH	(80°-90°)	4.8	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	276.3	276.3	276.3	276.3	276.3	276.3	276.3	276.3	276.3	276.3	276.3
2.5°	280.4	280.4	280.4	279.6	279.6	278.8	278.8	278.0	278.0	277.1	276.3
5°	284.5	284.5	283.7	282.8	282.0	282.0	282.0	281.2	279.6	279.6	278.0
7.5°	286.1	286.1	286.1	286.1	286.1	286.1	286.1	285.3	284.5	283.7	282.0
10°	286.9	286.9	287.7	287.7	289.4	290.2	290.2	291.0	290.2	288.5	286.9
12.5°	289.4	290.2	290.2	291.0	293.4	294.3	295.1	297.5	297.5	295.9	294.3
15°	294.3	294.3	295.1	296.7	300.0	300.8	303.2	305.7	307.3	305.7	304.0
17.5°	308.9	308.9	308.9	308.9	310.6	311.4	314.6	318.7	320.3	320.3	319.5
20°	338.3	338.3	336.6	333.4	331.8	331.8	330.9	332.6	335.8	338.3	339.1
22.5°	371.7	370.9	370.1	365.2	359.5	357.8	356.2	354.6	356.2	360.3	361.9
25°	397.8	398.6	397.8	391.3	386.4	385.5	383.1	383.9	383.9	384.7	387.2
27.5°	419.0	420.6	417.3	414.1	410.8	408.4	410.0	412.4	416.5	414.9	419.8
30°	442.6	441.8	438.5	434.5	432.0	431.2	430.4	439.3	450.8	455.6	461.4
32.5°	485.0	484.2	477.7	457.3	451.6	451.6	453.2	464.6	482.5	498.0	512.7
35°	524.1	524.1	516.0	502.1	477.7	470.3	474.4	488.3	514.3	545.3	568.9
37.5°	570.6	571.4	562.4	541.2	521.7	514.3	494.8	514.3	546.1	605.6	635.0
40°	624.4	622.7	608.1	585.2	560.0	554.3	538.0	542.0	586.9	676.5	705.1
42.5°	654.5	652.9	643.1	625.2	604.8	598.3	583.6	579.5	641.5	754.8	773.5
45°	683.9	685.5	684.7	675.7	670.8	666.8	658.6	659.4	709.1	832.2	833.0
47.5°	701.0	704.3	691.2	690.4	691.2	691.2	702.6	725.4	773.5	898.3	885.2
50°	751.5	748.3	708.3	710.0	720.6	725.4	746.6	780.1	863.2	955.3	930.0
52.5°	853.4	830.6	780.1	755.6	759.7	771.9	797.2	845.3	952.9	1011.6	970.0
55°	967.5	957.8	905.6	842.8	815.1	830.6	857.5	908.0	1023.8	1059.6	1003.4
57.5°	1046.6	1050.7	1052.3	1001.8	904.8	909.7	926.8	970.8	1087.4	1108.6	1028.7
60°	1123.2	1128.9	1159.9	1152.6	1120.8	1084.9	1018.1	1032.7	1142.0	1143.6	1048.2
62.5°	1184.4	1187.6	1237.3	1260.2	1317.2	1319.7	1211.3	1118.3	1197.4	1168.9	1055.6
65°	1153.4	1162.3	1234.9	1304.2	1466.4	1484.3	1441.9	1227.6	1239.8	1180.3	1050.7
67.5°	1049.0	1063.7	1132.2	1291.1	1559.3	1571.5	1534.0	1425.6	1255.3	1176.2	1023.8
70°	904.0	910.5	988.7	1186.8	1576.4	1582.1	1535.7	1467.2	1244.7	1152.6	967.5
72.5°	735.2	742.6	810.2	1020.5	1499.0	1503.9	1491.7	1434.6	1219.4	1108.6	853.4
75°	551.8	563.2	627.6	797.2	1323.7	1365.3	1390.6	1366.1	1149.3	962.6	649.6
77.5°	364.4	365.2	430.4	602.4	1049.0	1090.6	1094.7	1074.3	815.9	604.0	288.5
80°	156.5	171.2	251.9	404.3	696.9	704.3	712.4	658.6	418.2	186.7	31.8
82.5°	52.2	57.9	106.0	213.6	343.2	351.3	336.6	291.8	117.4	25.3	17.9
85°	22.0	24.5	32.6	58.7	83.1	75.8	70.9	57.9	16.3	14.7	11.4
87.5°	0.8	0.8	0.8	0.8	1.6	0.8	1.6	1.6	2.4	2.4	3.3
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°	276.3	276.3	276.3	276.3	276.3	276.3	276.3	276.3	276.3	276.3	276.3
2.5°	276.3	276.3	276.3	275.5	275.5	274.7	274.7	273.9	273.9	273.9	273.9
5°	278.0	278.0	276.3	275.5	273.9	272.2	270.6	269.0	267.4	267.4	267.4
7.5°	281.2	280.4	278.0	274.7	271.4	267.4	264.9	261.7	260.0	258.4	259.2
10°	286.1	284.5	281.2	276.3	269.8	263.3	257.6	252.7	250.2	247.8	247.0
12.5°	292.6	291.0	286.1	278.8	269.0	259.2	250.2	242.9	238.0	235.6	234.8
15°	302.4	300.0	293.4	282.8	269.0	254.3	242.1	231.5	223.3	218.4	218.4
17.5°	317.9	315.4	306.5	291.8	272.2	251.9	233.1	215.2	204.6	198.9	198.1
20°	338.3	335.0	324.4	303.2	278.0	251.1	223.3	200.5	182.6	172.8	172.0
22.5°	361.9	359.5	343.2	315.4	283.7	249.4	216.0	185.8	160.6	142.6	138.6
25°	389.6	385.5	361.1	325.2	285.3	245.3	205.4	170.4	135.3	113.3	109.2
27.5°	422.2	413.3	377.4	332.6	284.5	237.2	193.2	148.4	102.7	86.4	84.0
30°	457.3	441.8	393.7	337.5	279.6	224.2	172.0	110.9	74.2	64.4	61.9
32.5°	497.2	472.8	408.4	338.3	269.0	206.2	136.1	75.8	53.0	47.3	46.5
35°	545.3	511.9	423.9	335.0	253.5	176.9	94.6	51.4	39.1	37.5	37.5
37.5°	608.1	561.6	441.0	325.2	229.9	136.9	62.8	35.0	34.2	35.0	35.0
40°	674.1	618.7	462.2	310.6	199.7	98.6	39.9	32.6	32.6	33.4	33.4
42.5°	736.9	673.3	489.1	291.0	165.5	63.6	32.6	31.0	30.2	31.0	31.8
45°	789.8	724.6	515.2	269.8	126.3	40.8	31.8	29.3	27.7	28.5	28.5
47.5°	837.1	763.8	529.8	244.5	88.8	31.8	31.8	26.9	25.3	25.3	26.1
50°	877.1	794.7	538.0	215.2	56.2	31.0	28.5	25.3	23.6	23.6	22.8
52.5°	910.5	817.6	537.2	182.6	36.7	30.2	26.9	23.6	21.2	22.0	22.0
55°	935.7	835.5	524.9	140.2	31.0	28.5	26.1	22.0	20.4	22.0	22.0
57.5°	955.3	843.6	502.1	97.8	30.2	26.1	24.5	20.4	18.7	19.6	19.6
60°	965.1	839.6	466.2	61.1	29.3	25.3	22.8	18.7	17.1	16.3	17.1
62.5°	961.8	824.9	414.9	40.8	27.7	23.6	21.2	17.9	15.5	13.9	13.9
65°	942.3	792.3	353.8	34.2	26.9	23.6	20.4	17.1	13.9	13.0	13.0
67.5°	898.3	724.6	262.5	31.8	26.9	22.8	19.6	16.3	13.9	12.2	12.2
70°	807.8	603.2	126.3	29.3	26.9	23.6	19.6	15.5	13.0	11.4	11.4
72.5°	653.7	426.3	32.6	25.3	26.1	23.6	20.4	15.5	12.2	10.6	10.6
75°	426.3	204.6	27.7	20.4	23.6	22.0	19.6	15.5	12.2	9.8	9.8
77.5°	138.6	28.5	25.3	17.9	21.2	21.2	19.6	15.5	12.2	9.0	9.0
80°	22.0	20.4	22.0	13.9	15.5	17.9	15.5	14.7	11.4	8.2	8.2
82.5°	15.5	18.7	16.3	11.4	13.9	14.7	12.2	9.8	8.2	7.3	7.3
85°	11.4	12.2	9.8	9.0	10.6	12.2	9.8	7.3	6.5	6.5	6.5
87.5°	4.1	4.9	4.9	6.5	8.2	9.0	5.7	4.1	4.9	4.9	4.9
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)