

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: P507468

Luminaire Tested: **VERD-S-CA1-20-760-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507468
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-CA1-20-760-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 430mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3153 lumens
Efficiency: N/A
Efficacy: 134.7 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

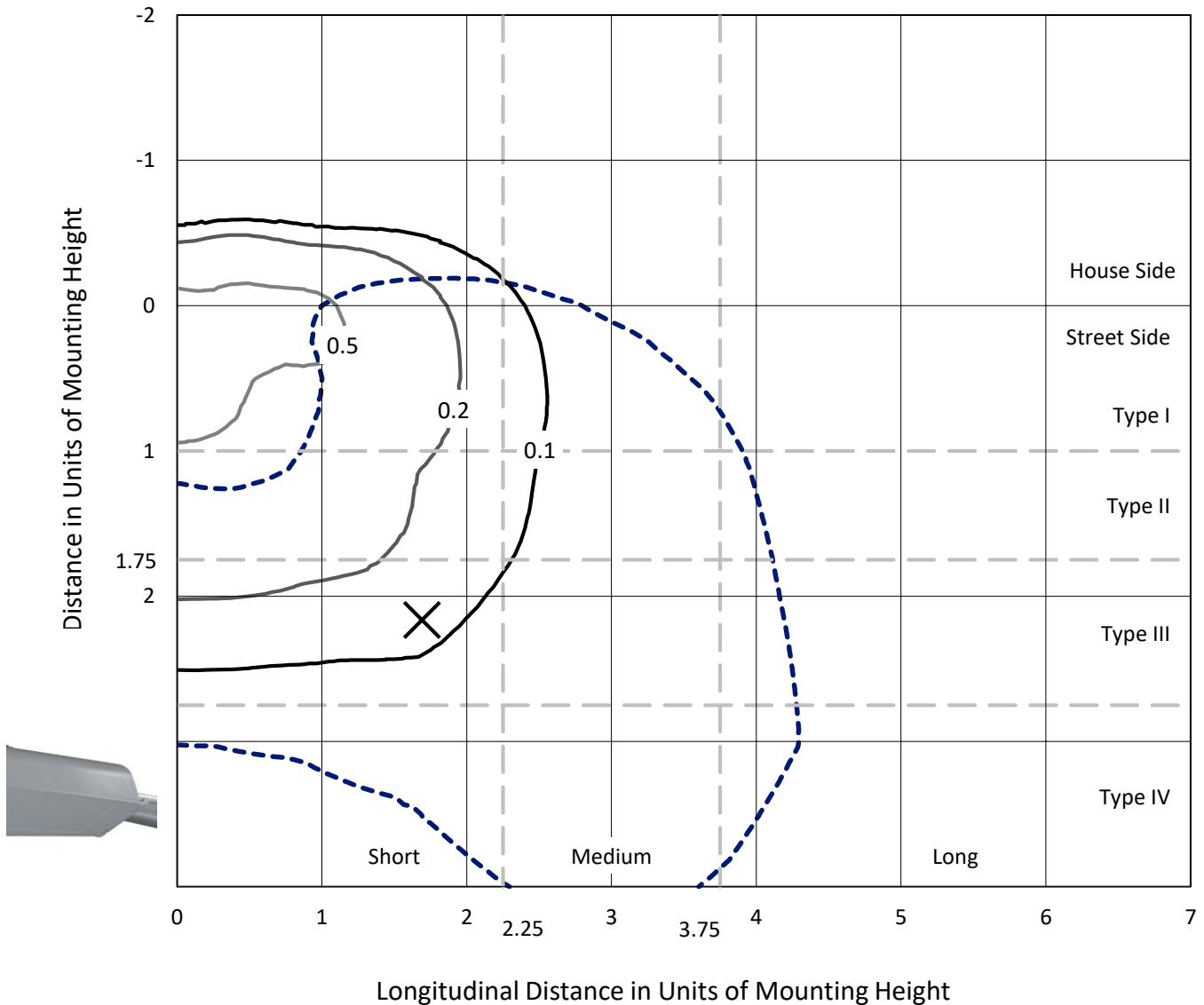
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

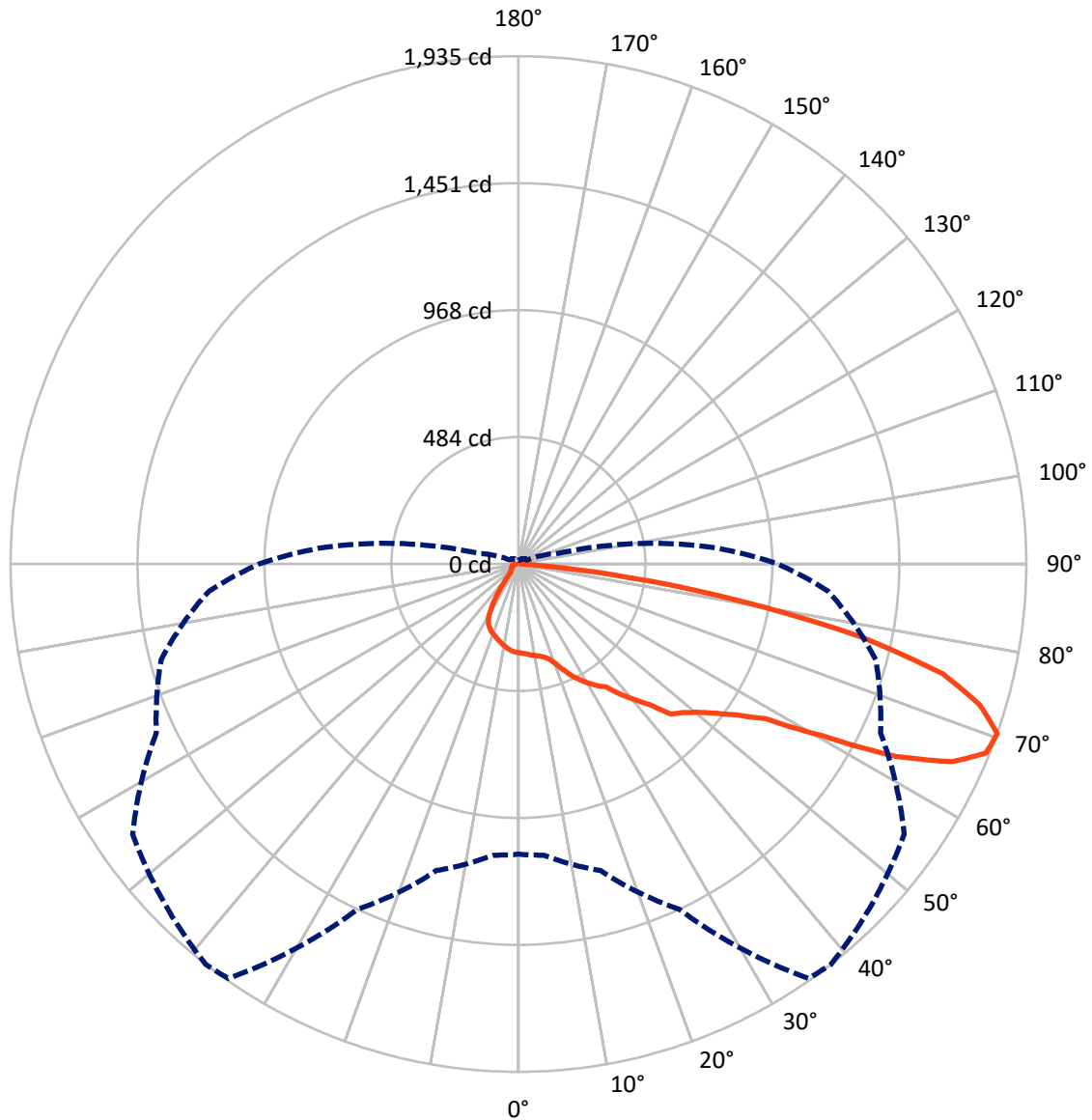
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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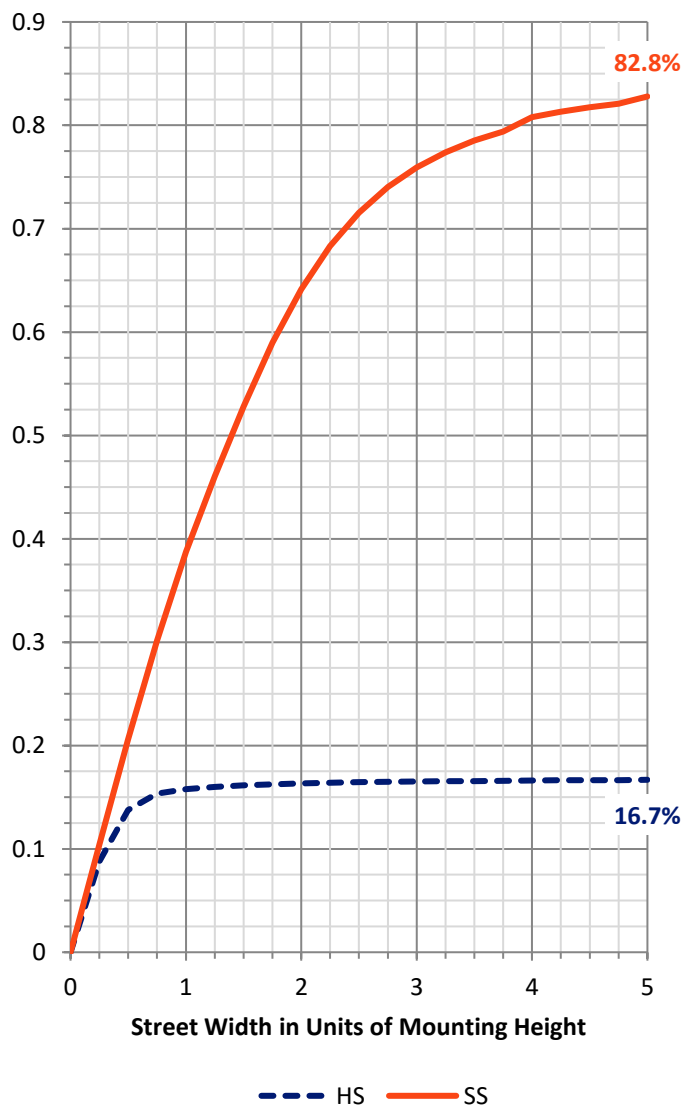
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.4	0.0	533.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	2619.6	0.0	2619.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	3153.0	0.0	3153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.0
10°-20°	97.9	3.1
20°-30°	180.3	5.7
30°-40°	282.2	9.0
40°-50°	428.7	13.6
50°-60°	616.4	19.6
60°-70°	828.2	26.3
70°-80°	613.6	19.5
80°-90°	73.4	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°	3153.0	100.0
0°-180°	3153.0	100.0

Coefficient of Utilization



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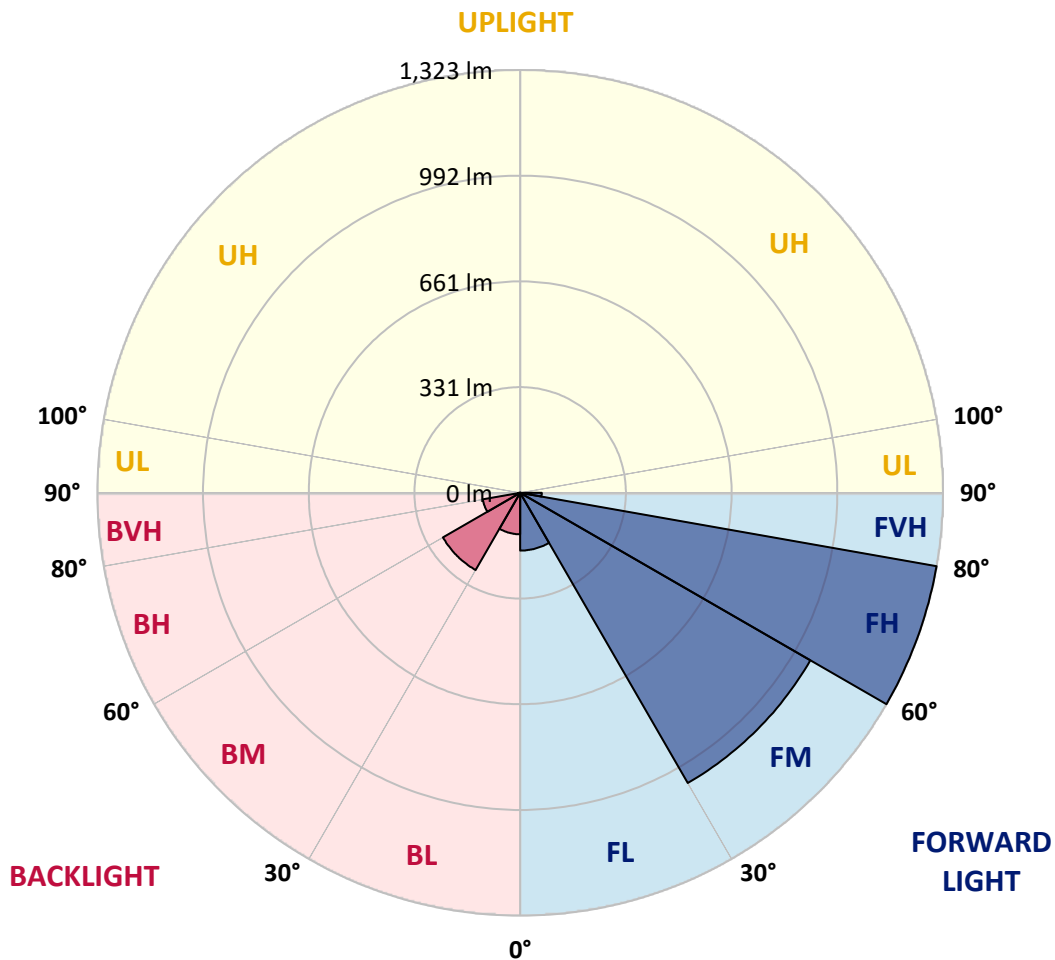
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.8	5.7			
FM (30°-60°)	1048.3	33.2			
FH (60°-80°)	1323.0	42.0			G1/1800
FVH (80°-90°)	67.5	2.1			G1/100
BL (0°-30°)	129.7	4.1	B1/500		
BM (30°-60°)	279.0	8.8	B1/1000		
BH (60°-80°)	118.8	3.8	B1/500		G1/500
BVH (80°-90°)	5.9	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°	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0
2.5°	342.9	342.9	342.9	341.9	341.9	340.9	340.9	339.9	339.9	339.0	338.0
5°	347.9	347.9	346.9	345.9	344.9	344.9	344.9	343.9	341.9	341.9	339.9
7.5°	349.9	349.9	349.9	349.9	349.9	349.9	349.9	348.9	347.9	346.9	344.9
10°	350.9	350.9	351.9	351.9	353.9	354.9	354.9	355.9	354.9	352.9	350.9
12.5°	353.9	354.9	354.9	355.9	358.9	359.9	360.9	363.9	363.9	361.9	359.9
15°	359.9	359.9	360.9	362.9	366.9	367.9	370.9	373.8	375.8	373.8	371.8
17.5°	377.8	377.8	377.8	377.8	379.8	380.8	384.8	389.8	391.8	391.8	390.8
20°	413.7	413.7	411.7	407.7	405.7	405.7	404.7	406.7	410.7	413.7	414.7
22.5°	454.6	453.6	452.6	446.6	439.6	437.6	435.7	433.7	435.7	440.6	442.6
25°	486.5	487.5	486.5	478.5	472.5	471.5	468.5	469.5	469.5	470.5	473.5
27.5°	512.4	514.4	510.4	506.4	502.4	499.5	501.4	504.4	509.4	507.4	513.4
30°	541.3	540.3	536.3	531.4	528.4	527.4	526.4	537.3	551.3	557.3	564.3
32.5°	593.2	592.2	584.2	559.3	552.3	552.3	554.3	568.2	590.2	609.1	627.1
35°	641.0	641.0	631.0	614.1	584.2	575.2	580.2	597.2	629.1	666.9	695.8
37.5°	697.8	698.8	687.9	662.0	638.0	629.1	605.1	629.1	667.9	740.7	776.6
40°	763.6	761.6	743.7	715.8	684.9	677.9	658.0	662.9	717.8	827.4	862.3
42.5°	800.5	798.5	786.6	764.6	739.7	731.7	713.8	708.8	784.6	923.1	946.1
45°	836.4	838.4	837.4	826.4	820.5	815.5	805.5	806.5	867.3	1017.8	1018.8
47.5°	857.3	861.3	845.4	844.4	845.4	845.4	859.3	887.3	946.1	1098.6	1082.6
50°	919.2	915.2	866.3	868.3	881.3	887.3	913.2	954.0	1055.7	1168.4	1137.5
52.5°	1043.8	1015.9	954.0	924.1	929.1	944.1	975.0	1033.8	1165.4	1237.2	1186.3
55°	1183.3	1171.4	1107.6	1030.8	996.9	1015.9	1048.8	1110.6	1252.1	1296.0	1227.2
57.5°	1280.0	1285.0	1287.0	1225.2	1106.6	1112.6	1133.5	1187.3	1329.9	1355.8	1258.1
60°	1373.7	1380.7	1418.6	1409.6	1370.8	1326.9	1245.1	1263.1	1396.7	1398.7	1282.0
62.5°	1448.5	1452.5	1513.3	1541.2	1611.0	1614.0	1481.4	1367.8	1464.5	1429.6	1291.0
65°	1410.6	1421.6	1510.3	1595.1	1793.4	1815.4	1763.5	1501.4	1516.3	1443.5	1285.0
67.5°	1283.0	1301.0	1384.7	1579.1	1907.1	1922.1	1876.2	1743.6	1535.2	1438.5	1252.1
70°	1105.6	1113.6	1209.3	1451.5	1928.0	1935.0	1878.2	1794.4	1522.3	1409.6	1183.3
72.5°	899.2	908.2	990.9	1248.1	1833.3	1839.3	1824.4	1754.6	1491.4	1355.8	1043.8
75°	674.9	688.9	767.6	975.0	1619.0	1669.8	1700.7	1670.8	1405.6	1177.4	794.5
77.5°	445.6	446.6	526.4	736.7	1283.0	1333.9	1338.9	1313.9	997.9	738.7	352.9
80°	191.4	209.4	308.0	494.5	852.4	861.3	871.3	805.5	511.4	228.3	38.9
82.5°	63.8	70.8	129.6	261.2	419.7	429.7	411.7	356.9	143.6	30.9	21.9
85°	26.9	29.9	39.9	71.8	101.7	92.7	86.7	70.8	19.9	17.9	14.0
87.5°	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0	3.0	3.0	4.0
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°	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0
2.5°	338.0	338.0	338.0	337.0	337.0	336.0	336.0	335.0	335.0	335.0	335.0
5°	339.9	339.9	338.0	337.0	335.0	333.0	331.0	329.0	327.0	327.0	327.0
7.5°	343.9	342.9	339.9	336.0	332.0	327.0	324.0	320.0	318.0	316.0	317.0
10°	349.9	347.9	343.9	338.0	330.0	322.0	315.0	309.0	306.1	303.1	302.1
12.5°	357.9	355.9	349.9	340.9	329.0	317.0	306.1	297.1	291.1	288.1	287.1
15°	369.9	366.9	358.9	345.9	329.0	311.0	296.1	283.1	273.2	267.2	267.2
17.5°	388.8	385.8	374.8	356.9	333.0	308.0	285.1	263.2	250.2	243.2	242.3
20°	413.7	409.7	396.8	370.9	339.9	307.0	273.2	245.2	223.3	211.3	210.3
22.5°	442.6	439.6	419.7	385.8	346.9	305.1	264.2	227.3	196.4	174.5	169.5
25°	476.5	471.5	441.6	397.8	348.9	300.1	251.2	208.4	165.5	138.6	133.6
27.5°	516.4	505.4	461.6	406.7	347.9	290.1	236.3	181.4	125.6	105.7	102.7
30°	559.3	540.3	481.5	412.7	341.9	274.2	210.3	135.6	90.7	78.8	75.8
32.5°	608.1	578.2	499.5	413.7	329.0	252.2	166.5	92.7	64.8	57.8	56.8
35°	666.9	626.1	518.4	409.7	310.0	216.3	115.6	62.8	47.9	45.9	45.9
37.5°	743.7	686.9	539.3	397.8	281.1	167.5	76.8	42.9	41.9	42.9	42.9
40°	824.4	756.7	565.3	379.8	244.2	120.6	48.8	39.9	39.9	40.9	40.9
42.5°	901.2	823.5	598.1	355.9	202.4	77.8	39.9	37.9	36.9	37.9	38.9
45°	966.0	886.3	630.1	330.0	154.5	49.8	38.9	35.9	33.9	34.9	34.9
47.5°	1023.8	934.1	648.0	299.1	108.7	38.9	38.9	32.9	30.9	30.9	31.9
50°	1072.7	972.0	658.0	263.2	68.8	37.9	34.9	30.9	28.9	28.9	27.9
52.5°	1113.6	999.9	657.0	223.3	44.9	36.9	32.9	28.9	25.9	26.9	26.9
55°	1144.5	1021.8	642.0	171.5	37.9	34.9	31.9	26.9	24.9	26.9	26.9
57.5°	1168.4	1031.8	614.1	119.6	36.9	31.9	29.9	24.9	22.9	23.9	23.9
60°	1180.3	1026.8	570.2	74.8	35.9	30.9	27.9	22.9	20.9	19.9	20.9
62.5°	1176.4	1008.9	507.4	49.8	33.9	28.9	25.9	21.9	18.9	16.9	16.9
65°	1152.4	969.0	432.7	41.9	32.9	28.9	24.9	20.9	16.9	16.0	16.0
67.5°	1098.6	886.3	321.0	38.9	32.9	27.9	23.9	19.9	16.9	15.0	15.0
70°	987.9	737.7	154.5	35.9	32.9	28.9	23.9	18.9	16.0	14.0	14.0
72.5°	799.5	521.4	39.9	30.9	31.9	28.9	24.9	18.9	15.0	13.0	13.0
75°	521.4	250.2	33.9	24.9	28.9	26.9	23.9	18.9	15.0	12.0	12.0
77.5°	169.5	34.9	30.9	21.9	25.9	25.9	23.9	18.9	15.0	11.0	11.0
80°	26.9	24.9	26.9	16.9	18.9	21.9	18.9	17.9	14.0	10.0	10.0
82.5°	18.9	22.9	19.9	14.0	16.9	17.9	15.0	12.0	10.0	9.0	9.0
85°	14.0	15.0	12.0	11.0	13.0	15.0	12.0	9.0	8.0	8.0	8.0
87.5°	5.0	6.0	6.0	8.0	10.0	11.0	7.0	5.0	6.0	6.0	6.0
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)