

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: P507453

Luminaire Tested: **VERD-S-CA1-20-740-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-740-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 430mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3508 lumens
Efficiency: N/A
Efficacy: 149.9 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 (A_{in}): 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

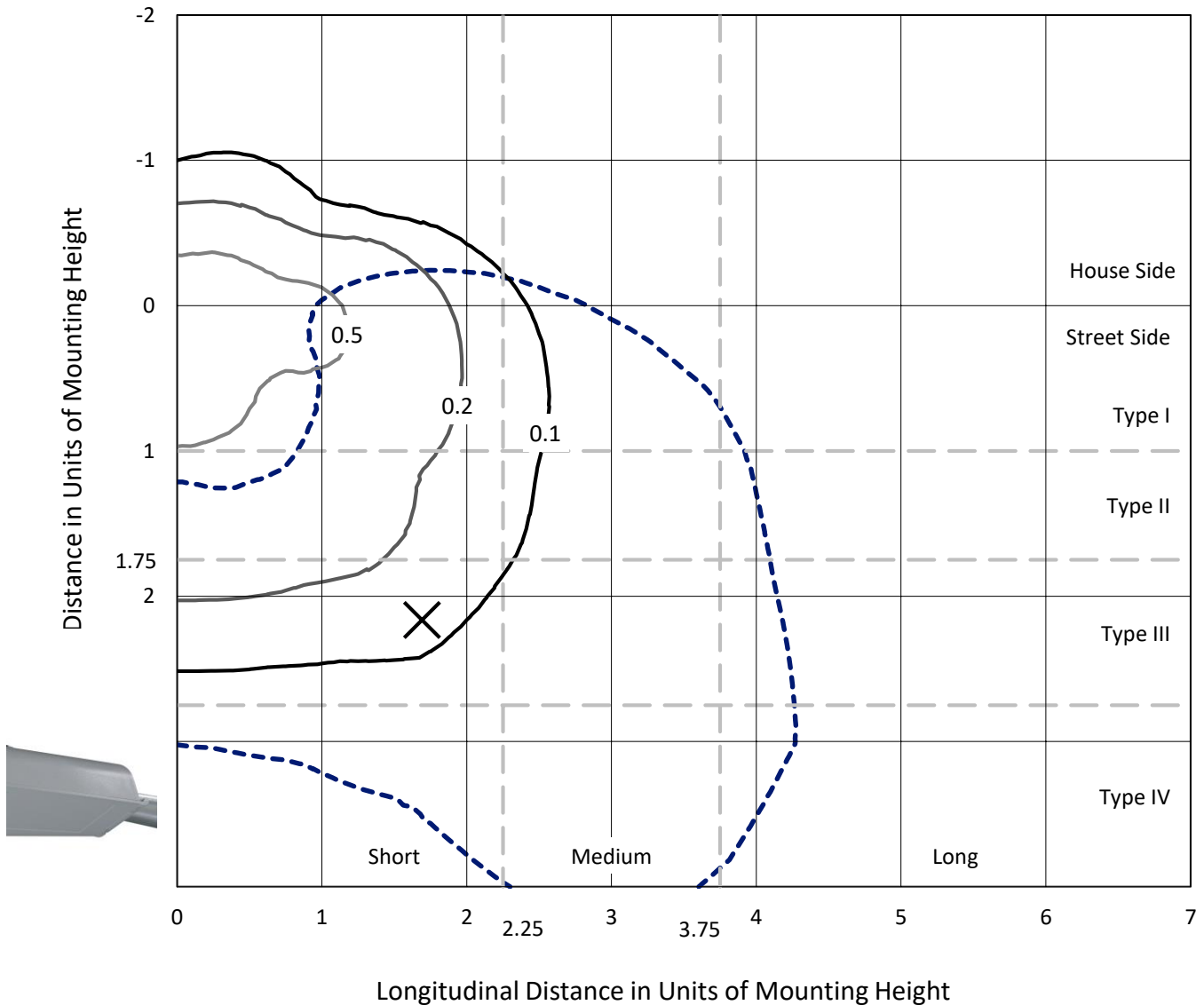


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Iso-Footcandle Lines of Horizontal Illumination

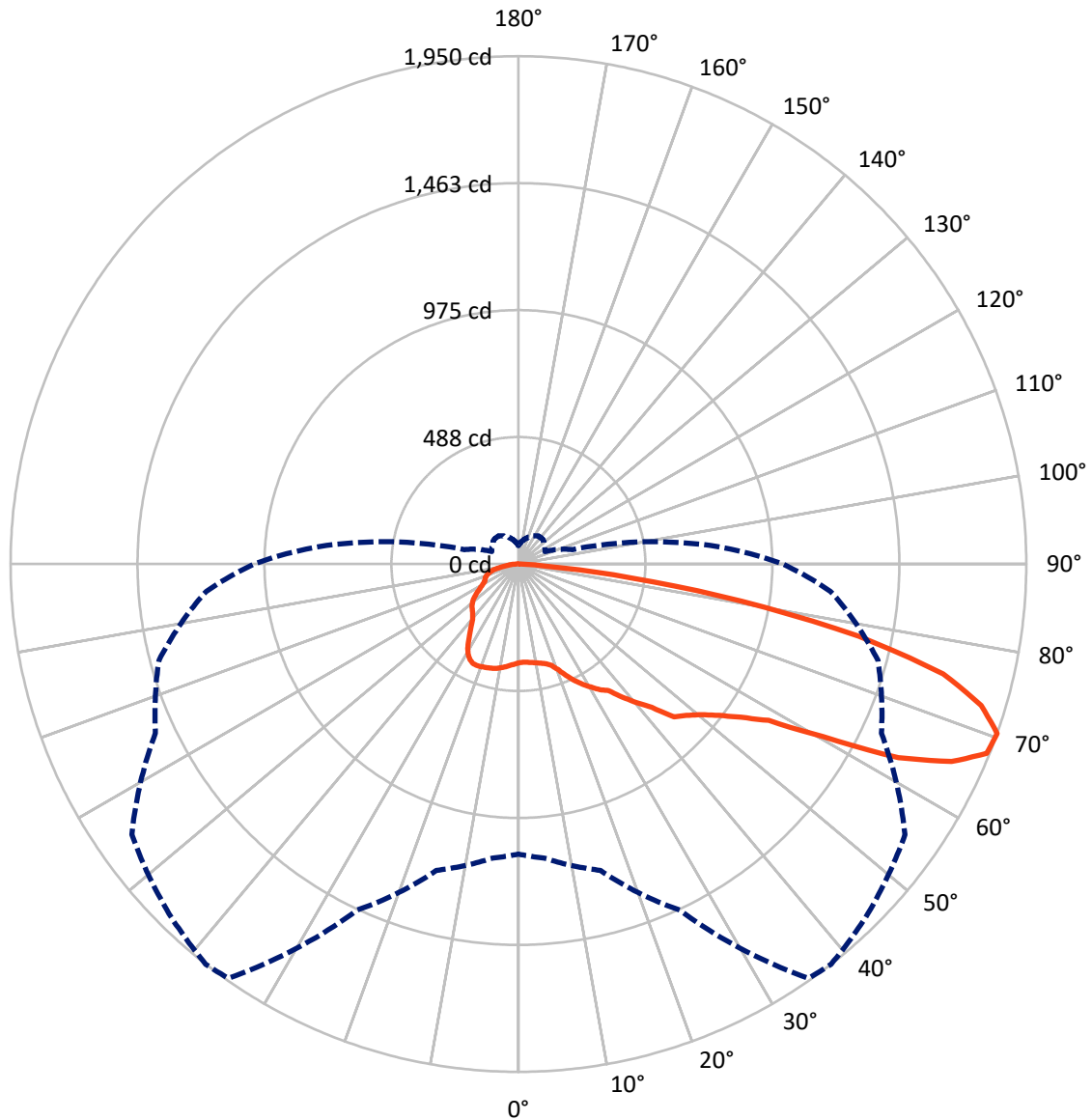
✕ Max cd
 - - - 1/2 Max cd



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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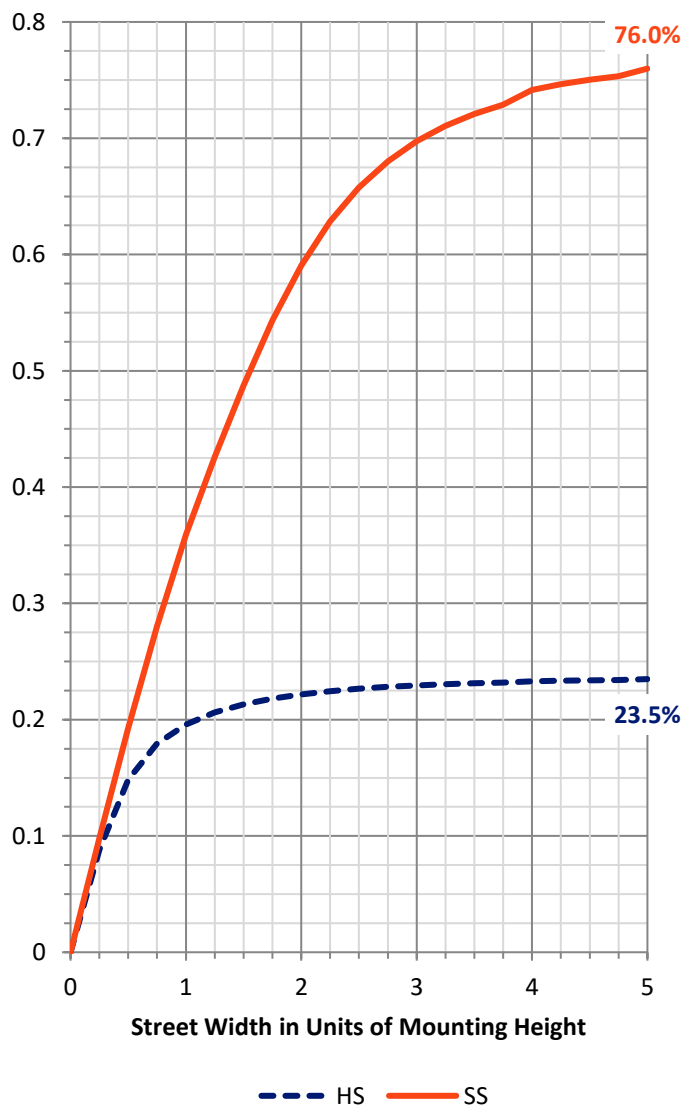
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	833.2	0.0	833.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2674.8	0.0	2674.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	3508.0	0.0	3508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.1
10°-20°	116.5	3.3
20°-30°	216.1	6.2
30°-40°	334.6	9.5
40°-50°	495.7	14.1
50°-60°	690.8	19.7
60°-70°	887.1	25.3
70°-80°	649.0	18.5
80°-90°	81.3	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°	3508.0	100.0
0°-180°	3508.0	100.0

Coefficient of Utilization



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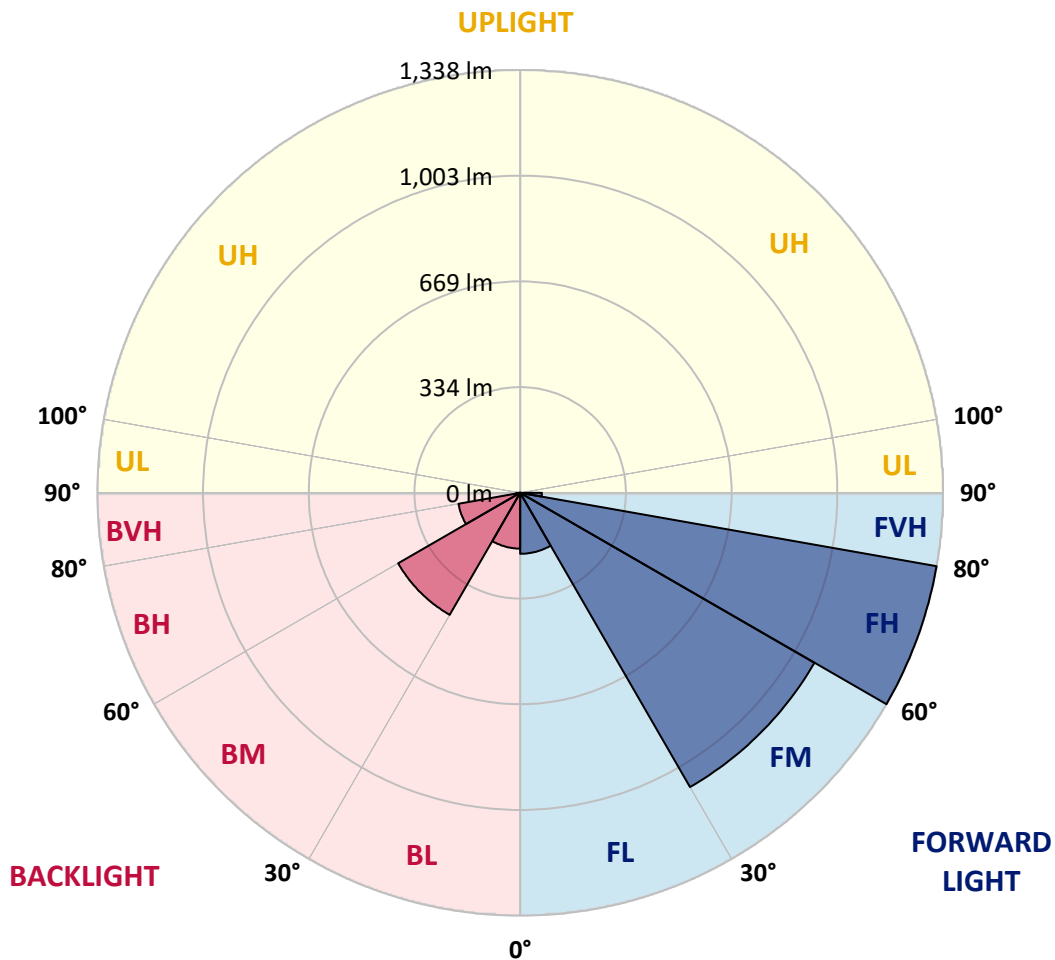
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.0	5.5			
FM	(30°-60°)	1075.1	30.6			
FH	(60°-80°)	1338.0	38.1			G1/1800
FVH	(80°-90°)	68.7	2.0			G1/100
BL	(0°-30°)	176.5	5.0	B1/500		
BM	(30°-60°)	445.9	12.7	B1/1000		
BH	(60°-80°)	198.1	5.6	B1/500		G1/500
BVH	(80°-90°)	12.6	0.4			G1/100
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°	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1
2.5°	378.1	378.1	378.1	377.1	377.1	377.1	376.1	376.1	377.1	378.1	378.1
5°	381.1	381.1	380.1	380.1	379.1	379.1	379.1	378.1	378.1	378.1	380.1
7.5°	382.1	382.1	382.1	382.1	382.1	382.1	383.1	382.1	382.1	382.1	384.1
10°	382.1	382.1	383.1	383.1	385.1	386.1	387.1	389.1	389.1	389.1	390.1
12.5°	384.1	384.1	385.1	386.1	389.1	391.1	393.1	396.1	397.1	397.1	398.1
15°	388.1	388.1	389.1	392.1	396.1	397.1	400.1	404.1	408.1	409.1	410.1
17.5°	404.1	404.1	404.1	404.1	408.1	409.1	413.1	419.1	423.1	425.1	428.1
20°	436.1	437.1	435.1	434.1	432.1	432.1	432.1	435.1	440.1	447.1	452.1
22.5°	477.1	477.1	477.1	469.1	464.1	463.1	463.1	462.1	466.1	473.1	480.1
25°	509.1	510.1	509.1	502.1	496.1	494.1	494.1	497.1	497.1	503.1	511.1
27.5°	535.1	537.1	534.1	528.1	523.1	522.1	523.1	532.1	537.1	541.1	551.1
30°	563.1	564.1	557.1	553.1	550.1	548.1	549.1	562.1	579.1	584.1	601.1
32.5°	615.1	615.1	605.1	582.1	574.1	575.1	575.1	592.1	615.1	638.1	660.1
35°	664.1	663.1	654.1	634.1	604.1	597.1	601.1	619.1	655.1	694.1	733.1
37.5°	722.1	720.1	712.1	684.1	659.1	648.1	626.1	650.1	694.1	771.1	811.1
40°	787.1	784.1	766.1	738.1	705.1	700.1	681.1	685.1	743.1	852.1	898.1
42.5°	823.1	821.1	809.1	786.1	762.1	752.1	736.1	731.1	809.1	957.1	980.1
45°	857.1	861.1	861.1	850.1	840.1	838.1	827.1	831.1	894.1	1043.1	1052.1
47.5°	878.1	882.1	869.1	867.1	867.1	868.1	879.1	906.1	971.1	1124.2	1115.2
50°	941.1	938.1	886.1	894.1	903.1	909.1	933.1	976.1	1078.2	1197.2	1170.2
52.5°	1055.1	1028.1	966.1	948.1	953.1	965.1	997.1	1053.1	1187.2	1262.2	1218.2
55°	1196.2	1180.2	1124.2	1044.1	1018.1	1038.1	1072.2	1129.2	1271.2	1323.2	1256.2
57.5°	1291.2	1297.2	1304.2	1249.2	1128.2	1133.2	1156.2	1204.2	1355.2	1382.2	1286.2
60°	1387.2	1394.2	1433.2	1419.2	1391.2	1345.2	1261.2	1284.2	1418.2	1421.2	1308.2
62.5°	1463.2	1468.2	1526.2	1558.2	1631.2	1637.2	1506.2	1385.2	1484.2	1452.2	1317.2
65°	1425.2	1434.2	1521.2	1610.2	1811.3	1828.3	1785.2	1515.2	1535.2	1464.2	1310.2
67.5°	1297.2	1310.2	1402.2	1591.2	1926.3	1939.3	1897.3	1760.2	1553.2	1459.2	1276.2
70°	1114.2	1133.2	1218.2	1466.2	1942.3	1950.3	1898.3	1812.3	1538.2	1429.2	1203.2
72.5°	906.1	921.1	1007.1	1257.2	1845.3	1858.3	1842.3	1769.2	1506.2	1371.2	1056.1
75°	694.1	695.1	786.1	985.1	1633.2	1685.2	1712.2	1686.2	1419.2	1206.2	813.1
77.5°	438.1	451.1	544.1	746.1	1283.2	1336.2	1348.2	1316.2	993.1	740.1	350.0
80°	197.0	217.0	312.0	504.1	873.1	871.1	878.1	799.1	529.1	235.0	39.0
82.5°	71.0	75.0	131.0	253.0	423.1	434.1	429.1	369.1	143.0	33.0	24.0
85°	30.0	32.0	43.0	68.0	96.0	102.0	88.0	67.0	23.0	19.0	16.0
87.5°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	5.0
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°	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1	379.1
2.5°	378.1	379.1	380.1	382.1	382.1	383.1	384.1	385.1	385.1	385.1	385.1
5°	381.1	382.1	383.1	386.1	388.1	389.1	391.1	392.1	393.1	393.1	393.1
7.5°	385.1	386.1	388.1	391.1	394.1	396.1	398.1	399.1	400.1	400.1	400.1
10°	391.1	393.1	396.1	400.1	403.1	403.1	404.1	405.1	406.1	406.1	406.1
12.5°	399.1	401.1	406.1	411.1	412.1	411.1	409.1	409.1	408.1	407.1	407.1
15°	412.1	413.1	420.1	424.1	421.1	416.1	412.1	408.1	405.1	403.1	403.1
17.5°	430.1	433.1	440.1	440.1	432.1	423.1	413.1	403.1	395.1	392.1	391.1
20°	456.1	460.1	466.1	460.1	447.1	431.1	413.1	397.1	381.1	371.1	368.1
22.5°	485.1	490.1	492.1	479.1	460.1	438.1	414.1	389.1	363.1	341.0	335.0
25°	519.1	522.1	515.1	494.1	468.1	440.1	411.1	378.1	338.0	309.0	306.0
27.5°	559.1	556.1	537.1	505.1	470.1	436.1	400.1	356.0	306.0	284.0	281.0
30°	602.1	591.1	556.1	511.1	464.1	424.1	381.1	323.0	282.0	264.0	262.0
32.5°	653.1	631.1	574.1	512.1	453.1	403.1	350.0	296.0	266.0	246.0	244.0
35°	710.1	676.1	590.1	506.1	431.1	374.1	313.0	276.0	249.0	230.0	226.0
37.5°	787.1	737.1	610.1	493.1	403.1	337.0	286.0	255.0	232.0	211.0	208.0
40°	866.1	807.1	638.1	478.1	372.1	307.0	263.0	240.0	220.0	196.0	191.0
42.5°	945.1	877.1	676.1	460.1	341.0	284.0	253.0	238.0	214.0	189.0	184.0
45°	1010.1	937.1	712.1	439.1	310.0	263.0	247.0	234.0	210.0	183.0	177.0
47.5°	1066.1	987.1	743.1	420.1	280.0	247.0	242.0	227.0	204.0	177.0	171.0
50°	1113.2	1027.1	768.1	404.1	255.0	236.0	232.0	214.0	190.0	167.0	163.0
52.5°	1154.2	1056.1	779.1	399.1	230.0	223.0	216.0	198.0	176.0	155.0	149.0
55°	1181.2	1078.2	777.1	399.1	206.0	205.0	197.0	183.0	167.0	150.0	144.0
57.5°	1202.2	1088.2	762.1	341.0	186.0	182.0	177.0	171.0	161.0	142.0	136.0
60°	1212.2	1082.2	730.1	248.0	166.0	159.0	163.0	161.0	151.0	125.0	121.0
62.5°	1206.2	1064.1	658.1	181.0	145.0	144.0	150.0	146.0	127.0	104.0	102.0
65°	1183.2	1019.1	566.1	136.0	133.0	140.0	143.0	135.0	117.0	96.0	88.0
67.5°	1124.2	932.1	412.1	122.0	129.0	137.0	139.0	128.0	110.0	90.0	80.0
70°	1015.1	768.1	214.0	113.0	123.0	133.0	132.0	118.0	100.0	82.0	70.0
72.5°	823.1	545.1	81.0	101.0	114.0	124.0	122.0	106.0	71.0	51.0	46.0
75°	534.1	261.0	70.0	87.0	102.0	111.0	112.0	96.0	62.0	43.0	37.0
77.5°	183.0	48.0	57.0	72.0	88.0	100.0	97.0	77.0	48.0	32.0	29.0
80°	31.0	32.0	44.0	51.0	61.0	80.0	68.0	55.0	38.0	23.0	19.0
82.5°	22.0	27.0	31.0	30.0	42.0	53.0	46.0	37.0	25.0	18.0	16.0
85°	16.0	18.0	17.0	18.0	24.0	35.0	32.0	26.0	18.0	13.0	11.0
87.5°	6.0	6.0	8.0	10.0	15.0	22.0	19.0	8.0	7.0	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)