

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: P507452

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

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507452
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-CA1-20-740-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 430mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3163 lumens
Efficiency: N/A
Efficacy: 135.2 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

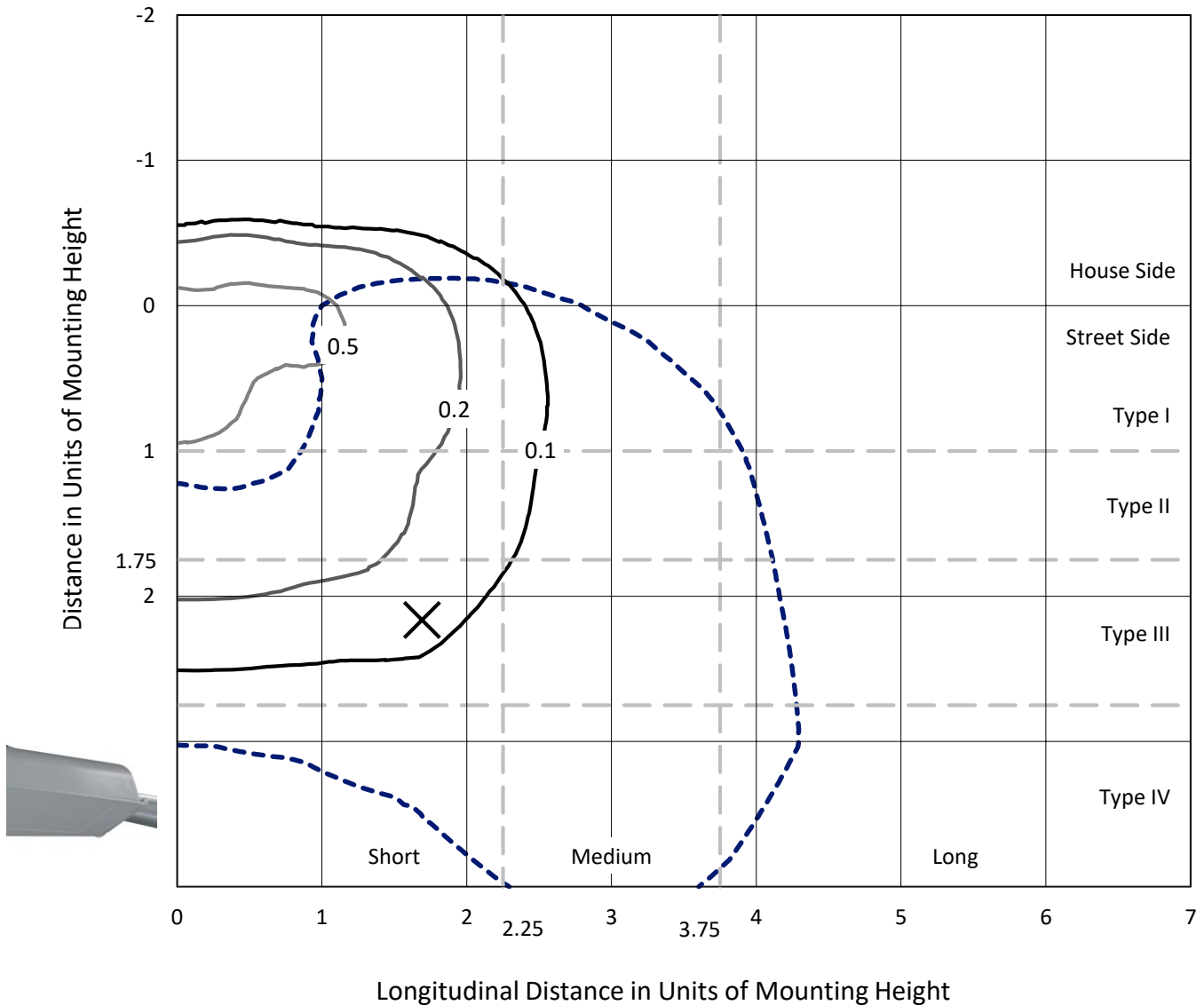
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507452
 CATALOG NUMBER: VERD-S-CA1-20-740-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

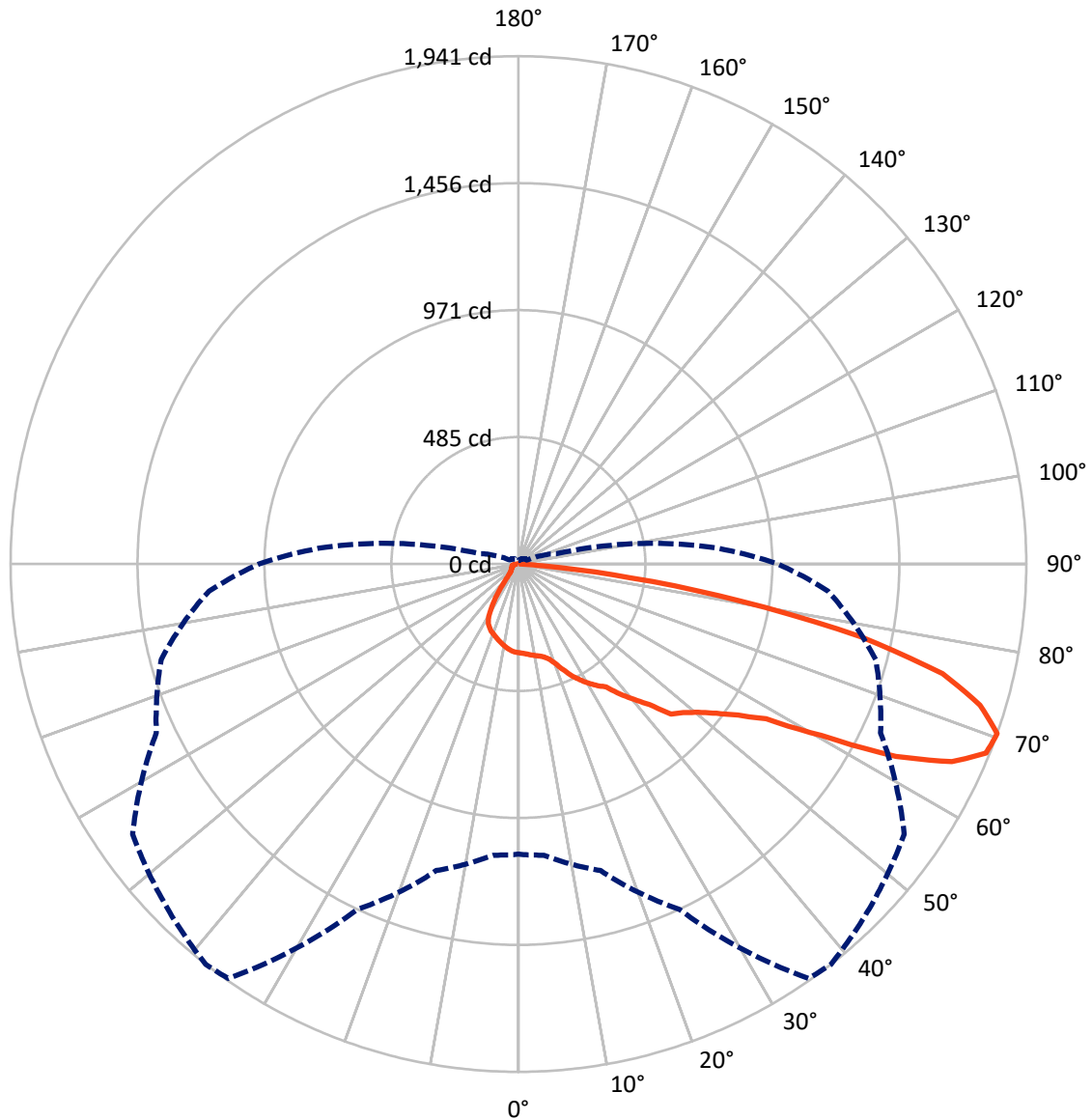
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P507452
CATALOG NUMBER: VERD-S-CA1-20-740-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507452
 CATALOG NUMBER: VERD-S-CA1-20-740-U-T4-HSS

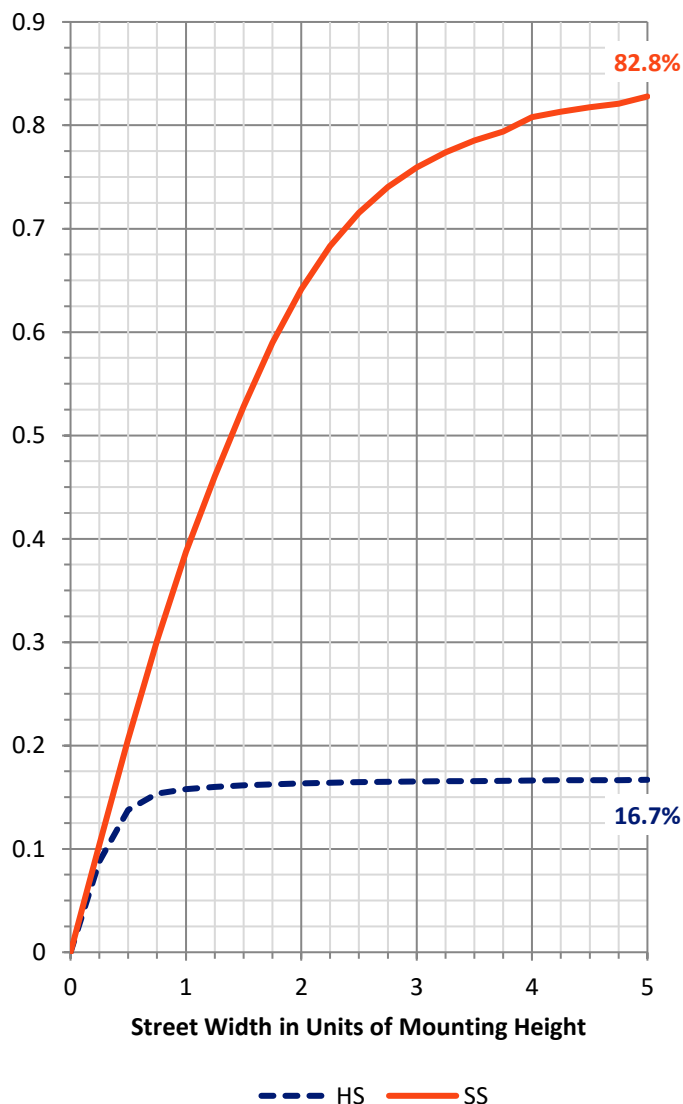
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	535.1	0.0	535.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	2627.9	0.0	2627.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	3163.0	0.0	3163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	1.0
10°-20°	98.2	3.1
20°-30°	180.8	5.7
30°-40°	283.1	9.0
40°-50°	430.1	13.6
50°-60°	618.4	19.6
60°-70°	830.8	26.3
70°-80°	615.5	19.5
80°-90°	73.6	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°	3163.0	100.0
0°-180°	3163.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507452

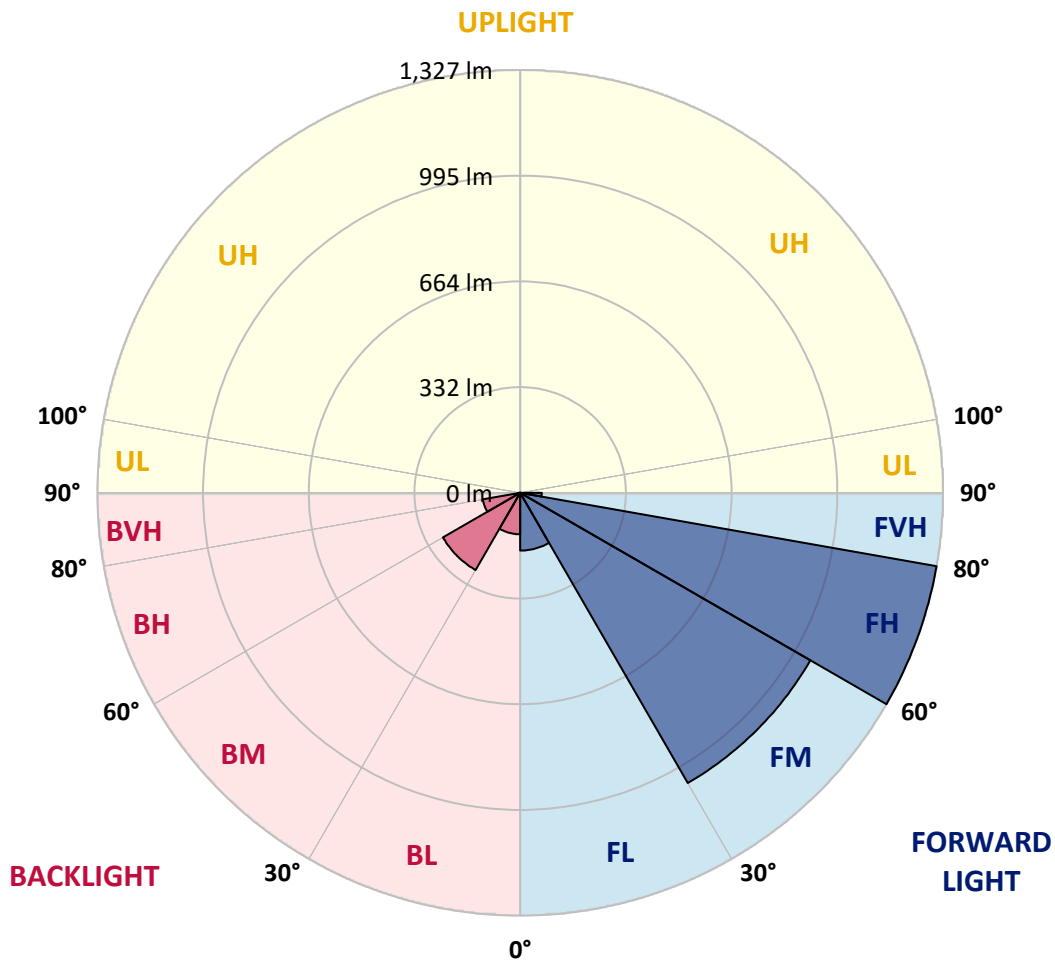
CATALOG NUMBER: VERD-S-CA1-20-740-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.3	5.7			
FM (30°-60°)	1051.7	33.2			
FH (60°-80°)	1327.2	42.0			G1/1800
FVH (80°-90°)	67.7	2.1			G1/100
BL (0°-30°)	130.1	4.1	B1/500		
BM (30°-60°)	279.9	8.8	B1/1000		
BH (60°-80°)	119.1	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





REPORT NUMBER: P507452

CATALOG NUMBER: VERD-S-CA1-20-740-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
2.5°	344.0	344.0	344.0	343.0	343.0	342.0	342.0	341.0	341.0	340.0	339.0
5°	349.0	349.0	348.0	347.0	346.0	346.0	346.0	345.0	343.0	343.0	341.0
7.5°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	350.0	349.0	348.0	346.0
10°	352.0	352.0	353.0	353.0	355.0	356.0	356.0	357.0	356.0	354.0	352.0
12.5°	355.0	356.0	356.0	357.0	360.0	361.0	362.0	365.0	365.0	363.0	361.0
15°	361.0	361.0	362.0	364.0	368.0	369.0	372.0	375.0	377.0	375.0	373.0
17.5°	379.0	379.0	379.0	379.0	381.0	382.0	386.0	391.0	393.0	393.0	392.0
20°	415.0	415.0	413.0	409.0	407.0	407.0	406.0	408.0	412.0	415.0	416.0
22.5°	456.0	455.0	454.0	448.0	441.0	439.0	437.0	435.0	437.0	442.0	444.0
25°	488.0	489.0	488.0	480.0	474.0	473.0	470.0	471.0	471.0	472.0	475.0
27.5°	514.0	516.0	512.0	508.0	504.0	501.0	503.0	506.0	511.0	509.0	515.0
30°	543.0	542.0	538.0	533.0	530.0	529.0	528.0	539.0	553.0	559.0	566.0
32.5°	595.0	594.0	586.0	561.0	554.0	554.0	556.0	570.0	592.0	611.0	629.0
35°	643.0	643.0	633.0	616.0	586.0	577.0	582.0	599.0	631.0	669.1	698.1
37.5°	700.1	701.1	690.1	664.1	640.0	631.0	607.0	631.0	670.1	743.1	779.1
40°	766.1	764.1	746.1	718.1	687.1	680.1	660.1	665.1	720.1	830.1	865.1
42.5°	803.1	801.1	789.1	767.1	742.1	734.1	716.1	711.1	787.1	926.1	949.1
45°	839.1	841.1	840.1	829.1	823.1	818.1	808.1	809.1	870.1	1021.1	1022.1
47.5°	860.1	864.1	848.1	847.1	848.1	848.1	862.1	890.1	949.1	1102.1	1086.1
50°	922.1	918.1	869.1	871.1	884.1	890.1	916.1	957.1	1059.1	1172.1	1141.1
52.5°	1047.1	1019.1	957.1	927.1	932.1	947.1	978.1	1037.1	1169.1	1241.1	1190.1
55°	1187.1	1175.1	1111.1	1034.1	1000.1	1019.1	1052.1	1114.1	1256.1	1300.1	1231.1
57.5°	1284.1	1289.1	1291.1	1229.1	1110.1	1116.1	1137.1	1191.1	1334.1	1360.1	1262.1
60°	1378.1	1385.1	1423.1	1414.1	1375.1	1331.1	1249.1	1267.1	1401.1	1403.1	1286.1
62.5°	1453.1	1457.1	1518.1	1546.1	1616.1	1619.1	1486.1	1372.1	1469.1	1434.1	1295.1
65°	1415.1	1426.1	1515.1	1600.1	1799.1	1821.1	1769.1	1506.1	1521.1	1448.1	1289.1
67.5°	1287.1	1305.1	1389.1	1584.1	1913.1	1928.1	1882.1	1749.1	1540.1	1443.1	1256.1
70°	1109.1	1117.1	1213.1	1456.1	1934.1	1941.1	1884.1	1800.1	1527.1	1414.1	1187.1
72.5°	902.1	911.1	994.1	1252.1	1839.1	1845.1	1830.1	1760.1	1496.1	1360.1	1047.1
75°	677.1	691.1	770.1	978.1	1624.1	1675.1	1706.1	1676.1	1410.1	1181.1	797.1
77.5°	447.0	448.0	528.0	739.1	1287.1	1338.1	1343.1	1318.1	1001.1	741.1	354.0
80°	192.0	210.0	309.0	496.0	855.1	864.1	874.1	808.1	513.0	229.0	39.0
82.5°	64.0	71.0	130.0	262.0	421.0	431.0	413.0	358.0	144.0	31.0	22.0
85°	27.0	30.0	40.0	72.0	102.0	93.0	87.0	71.0	20.0	18.0	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



REPORT NUMBER: P507452

CATALOG NUMBER: VERD-S-CA1-20-740-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
2.5°	339.0	339.0	339.0	338.0	338.0	337.0	337.0	336.0	336.0	336.0	336.0
5°	341.0	341.0	339.0	338.0	336.0	334.0	332.0	330.0	328.0	328.0	328.0
7.5°	345.0	344.0	341.0	337.0	333.0	328.0	325.0	321.0	319.0	317.0	318.0
10°	351.0	349.0	345.0	339.0	331.0	323.0	316.0	310.0	307.0	304.0	303.0
12.5°	359.0	357.0	351.0	342.0	330.0	318.0	307.0	298.0	292.0	289.0	288.0
15°	371.0	368.0	360.0	347.0	330.0	312.0	297.0	284.0	274.0	268.0	268.0
17.5°	390.0	387.0	376.0	358.0	334.0	309.0	286.0	264.0	251.0	244.0	243.0
20°	415.0	411.0	398.0	372.0	341.0	308.0	274.0	246.0	224.0	212.0	211.0
22.5°	444.0	441.0	421.0	387.0	348.0	306.0	265.0	228.0	197.0	175.0	170.0
25°	478.0	473.0	443.0	399.0	350.0	301.0	252.0	209.0	166.0	139.0	134.0
27.5°	518.0	507.0	463.0	408.0	349.0	291.0	237.0	182.0	126.0	106.0	103.0
30°	561.0	542.0	483.0	414.0	343.0	275.0	211.0	136.0	91.0	79.0	76.0
32.5°	610.0	580.0	501.0	415.0	330.0	253.0	167.0	93.0	65.0	58.0	57.0
35°	669.1	628.0	520.0	411.0	311.0	217.0	116.0	63.0	48.0	46.0	46.0
37.5°	746.1	689.1	541.0	399.0	282.0	168.0	77.0	43.0	42.0	43.0	43.0
40°	827.1	759.1	567.0	381.0	245.0	121.0	49.0	40.0	40.0	41.0	41.0
42.5°	904.1	826.1	600.0	357.0	203.0	78.0	40.0	38.0	37.0	38.0	39.0
45°	969.1	889.1	632.0	331.0	155.0	50.0	39.0	36.0	34.0	35.0	35.0
47.5°	1027.1	937.1	650.0	300.0	109.0	39.0	39.0	33.0	31.0	31.0	32.0
50°	1076.1	975.1	660.1	264.0	69.0	38.0	35.0	31.0	29.0	29.0	28.0
52.5°	1117.1	1003.1	659.1	224.0	45.0	37.0	33.0	29.0	26.0	27.0	27.0
55°	1148.1	1025.1	644.0	172.0	38.0	35.0	32.0	27.0	25.0	27.0	27.0
57.5°	1172.1	1035.1	616.0	120.0	37.0	32.0	30.0	25.0	23.0	24.0	24.0
60°	1184.1	1030.1	572.0	75.0	36.0	31.0	28.0	23.0	21.0	20.0	21.0
62.5°	1180.1	1012.1	509.0	50.0	34.0	29.0	26.0	22.0	19.0	17.0	17.0
65°	1156.1	972.1	434.0	42.0	33.0	29.0	25.0	21.0	17.0	16.0	16.0
67.5°	1102.1	889.1	322.0	39.0	33.0	28.0	24.0	20.0	17.0	15.0	15.0
70°	991.1	740.1	155.0	36.0	33.0	29.0	24.0	19.0	16.0	14.0	14.0
72.5°	802.1	523.0	40.0	31.0	32.0	29.0	25.0	19.0	15.0	13.0	13.0
75°	523.0	251.0	34.0	25.0	29.0	27.0	24.0	19.0	15.0	12.0	12.0
77.5°	170.0	35.0	31.0	22.0	26.0	26.0	24.0	19.0	15.0	11.0	11.0
80°	27.0	25.0	27.0	17.0	19.0	22.0	19.0	18.0	14.0	10.0	10.0
82.5°	19.0	23.0	20.0	14.0	17.0	18.0	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)