

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: P507469

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

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507469
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-CA1-20-760-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 430mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3497 lumens
Efficiency: N/A
Efficacy: 149.4 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

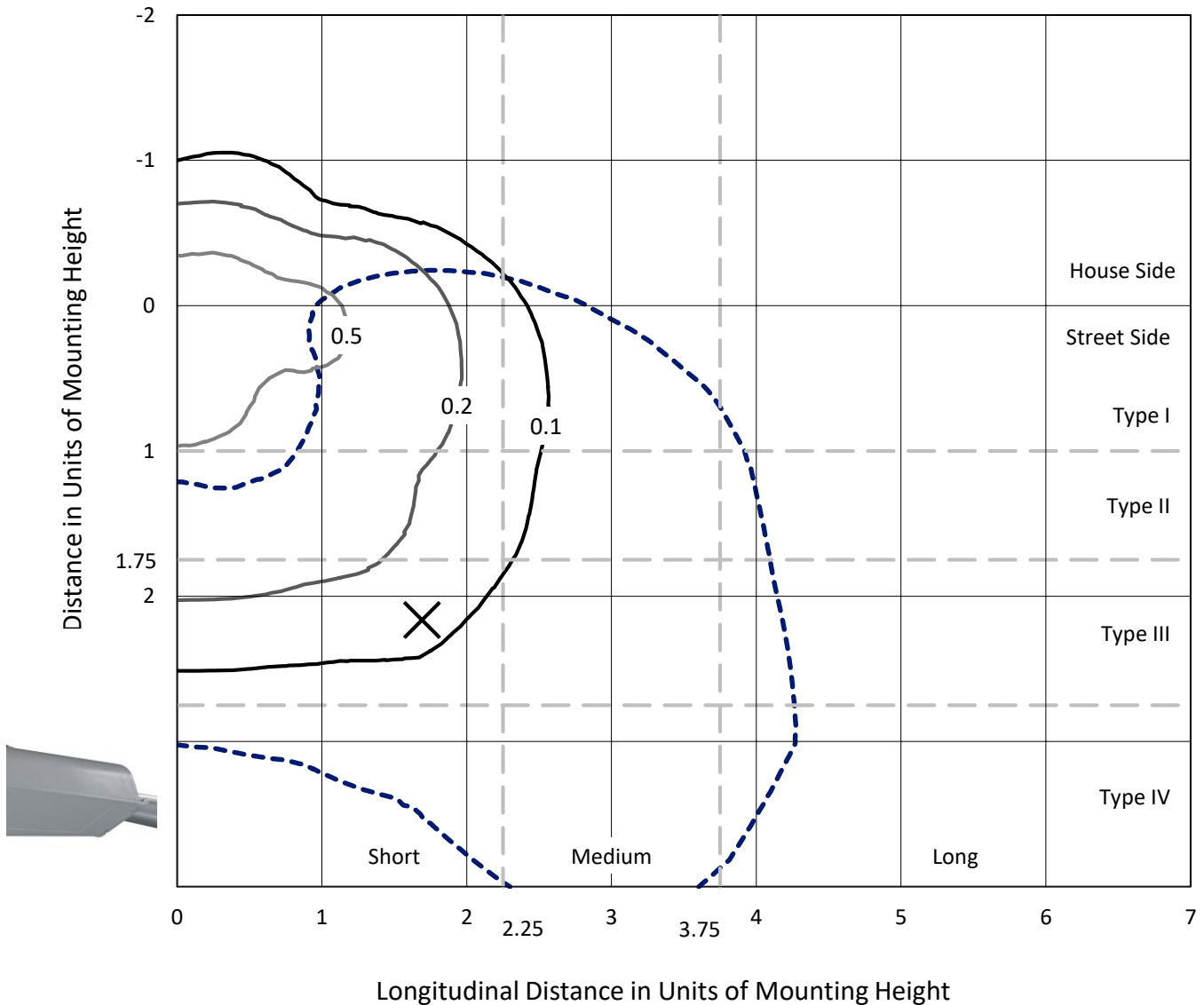


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Iso-Footcandle Lines of Horizontal Illumination

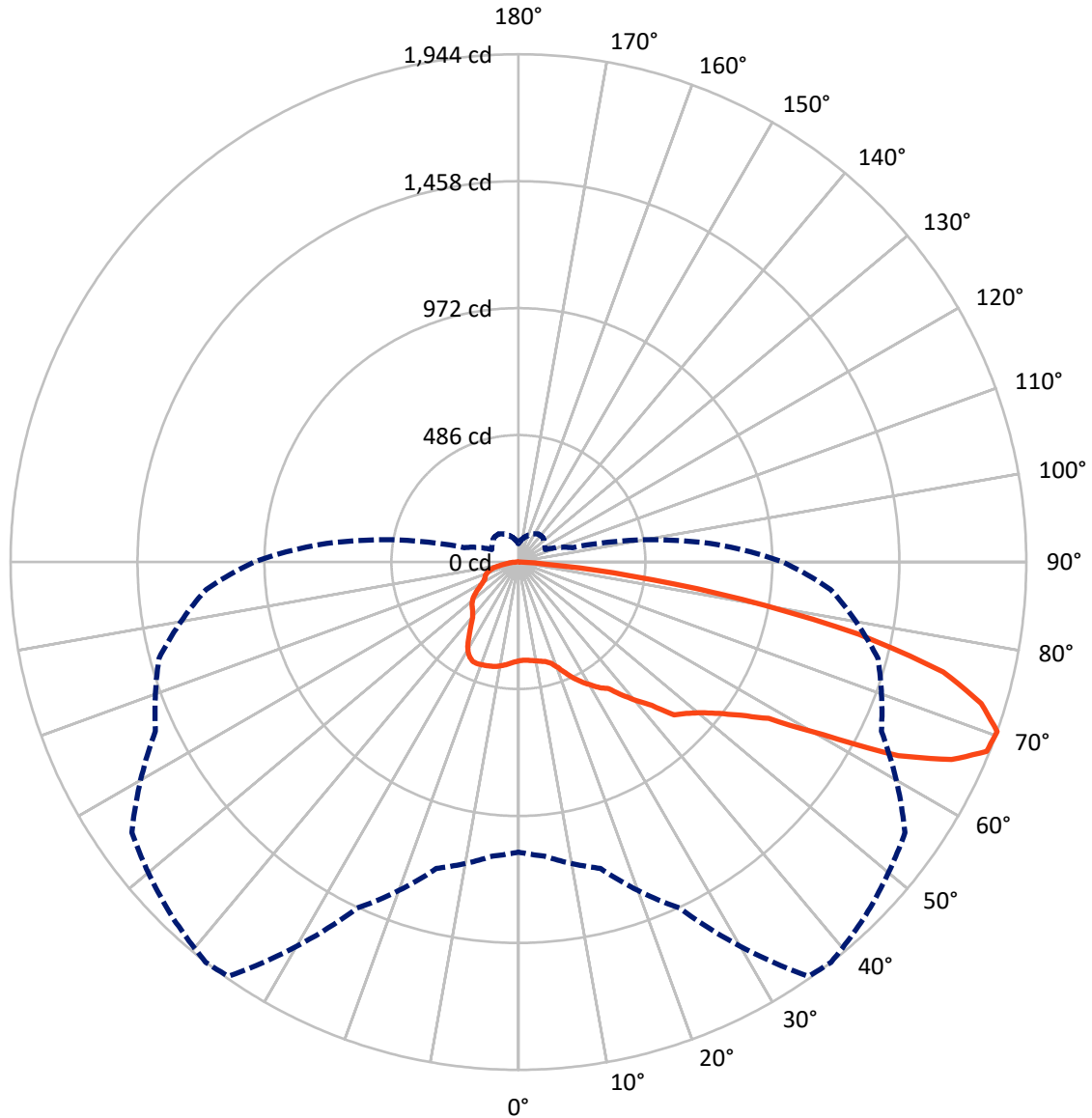
✕ Max cd
 - - - 1/2 Max cd



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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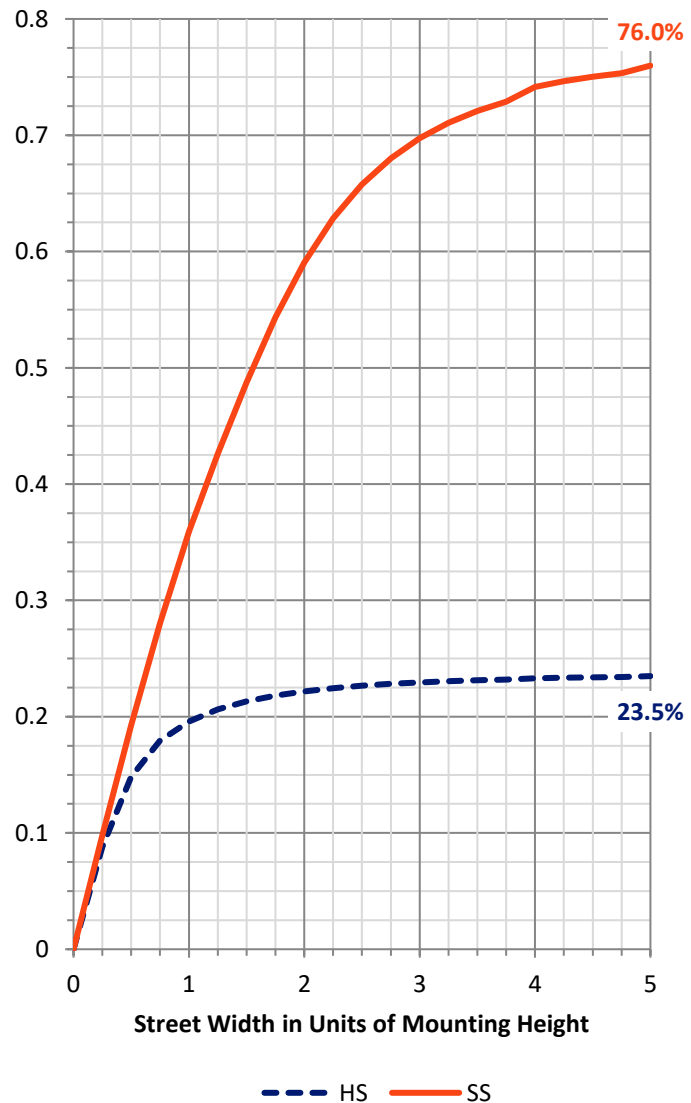
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	830.6	0.0	830.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2666.4	0.0	2666.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	3497.0	0.0	3497.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	1.1
10°-20°	116.1	3.3
20°-30°	215.4	6.2
30°-40°	333.5	9.5
40°-50°	494.2	14.1
50°-60°	688.6	19.7
60°-70°	884.3	25.3
70°-80°	647.0	18.5
80°-90°	81.0	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°	3497.0	100.0
0°-180°	3497.0	100.0



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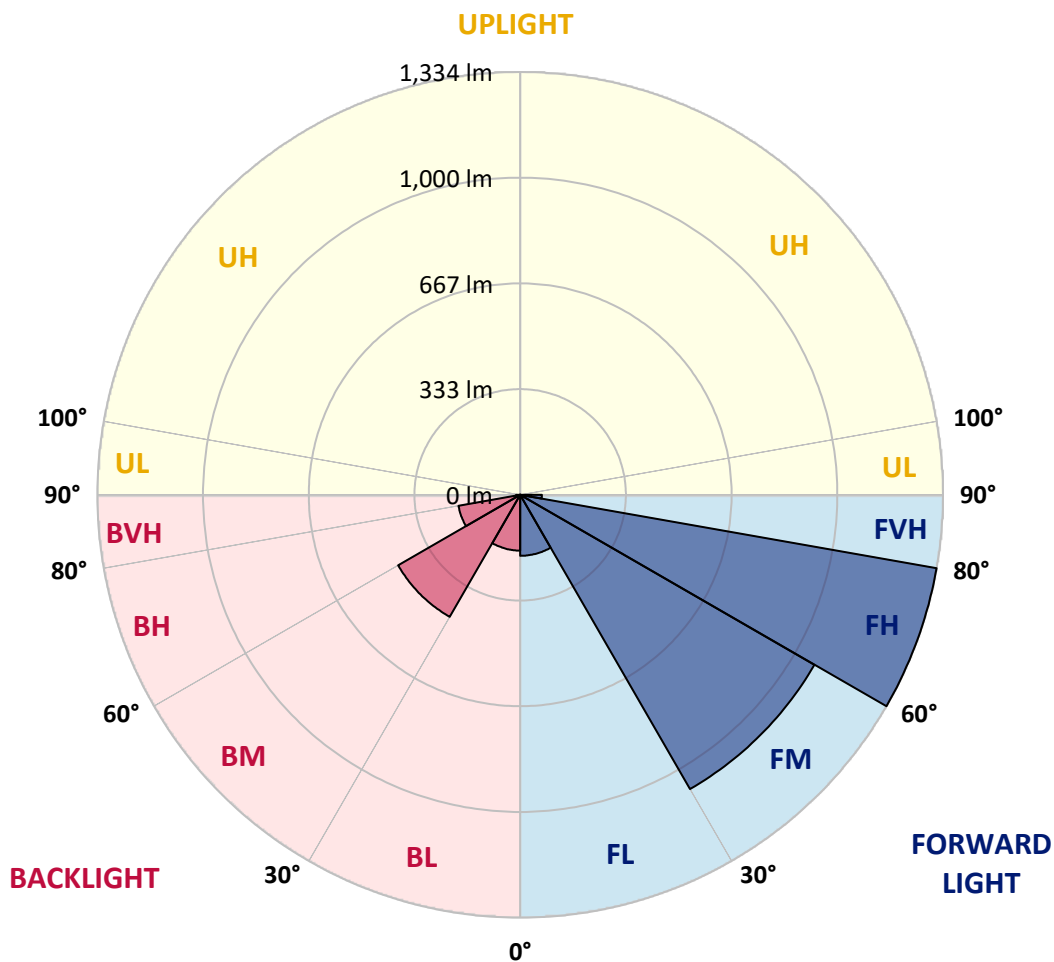
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.4	5.5			
FM	(30°-60°)	1071.7	30.6			
FH	(60°-80°)	1333.8	38.1			G1/1800
FVH	(80°-90°)	68.5	2.0			G1/100
BL	(0°-30°)	175.9	5.0	B1/500		
BM	(30°-60°)	444.6	12.7	B1/1000		
BH	(60°-80°)	197.5	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°	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9
2.5°	376.9	376.9	376.9	375.9	375.9	375.9	374.9	374.9	375.9	376.9	376.9
5°	379.9	379.9	378.9	378.9	377.9	377.9	377.9	376.9	376.9	376.9	378.9
7.5°	380.9	380.9	380.9	380.9	380.9	380.9	381.9	380.9	380.9	380.9	382.8
10°	380.9	380.9	381.9	381.9	383.8	384.8	385.8	387.8	387.8	387.8	388.8
12.5°	382.8	382.8	383.8	384.8	387.8	389.8	391.8	394.8	395.8	395.8	396.8
15°	386.8	386.8	387.8	390.8	394.8	395.8	398.8	402.8	406.8	407.8	408.8
17.5°	402.8	402.8	402.8	402.8	406.8	407.8	411.8	417.7	421.7	423.7	426.7
20°	434.7	435.7	433.7	432.7	430.7	430.7	430.7	433.7	438.7	445.7	450.6
22.5°	475.6	475.6	475.6	467.6	462.6	461.6	461.6	460.6	464.6	471.6	478.6
25°	507.5	508.5	507.5	500.5	494.5	492.5	492.5	495.5	495.5	501.5	509.5
27.5°	533.4	535.4	532.4	526.4	521.4	520.4	521.4	530.4	535.4	539.4	549.3
30°	561.3	562.3	555.3	551.3	548.4	546.4	547.4	560.3	577.3	582.3	599.2
32.5°	613.2	613.2	603.2	580.3	572.3	573.3	573.3	590.2	613.2	636.1	658.0
35°	662.0	661.0	652.0	632.1	602.2	595.2	599.2	617.1	653.0	691.9	730.8
37.5°	719.8	717.8	709.9	682.0	657.0	646.1	624.1	648.1	691.9	768.7	808.6
40°	784.6	781.7	763.7	735.8	702.9	697.9	679.0	682.9	740.8	849.4	895.3
42.5°	820.5	818.5	806.6	783.6	759.7	749.7	733.8	728.8	806.6	954.1	977.1
45°	854.4	858.4	858.4	847.5	837.5	835.5	824.5	828.5	891.3	1039.9	1048.8
47.5°	875.4	879.4	866.4	864.4	864.4	865.4	876.4	903.3	968.1	1120.6	1111.7
50°	938.2	935.2	883.3	891.3	900.3	906.3	930.2	973.1	1074.8	1193.4	1166.5
52.5°	1051.8	1024.9	963.1	945.2	950.1	962.1	994.0	1049.8	1183.4	1258.2	1214.4
55°	1192.4	1176.5	1120.6	1040.9	1014.9	1034.9	1068.8	1125.6	1267.2	1319.0	1252.2
57.5°	1287.1	1293.1	1300.1	1245.3	1124.6	1129.6	1152.5	1200.4	1350.9	1377.9	1282.1
60°	1382.8	1389.8	1428.7	1414.7	1386.8	1341.0	1257.2	1280.2	1413.8	1416.7	1304.1
62.5°	1458.6	1463.6	1521.4	1553.3	1626.1	1632.1	1501.5	1380.9	1479.6	1447.6	1313.1
65°	1420.7	1429.7	1516.4	1605.2	1805.6	1822.5	1779.7	1510.5	1530.4	1459.6	1306.1
67.5°	1293.1	1306.1	1397.8	1586.2	1920.2	1933.2	1891.3	1754.7	1548.3	1454.6	1272.2
70°	1110.7	1129.6	1214.4	1461.6	1936.2	1944.2	1892.3	1806.6	1533.4	1424.7	1199.4
72.5°	903.3	918.2	1004.0	1253.2	1839.5	1852.4	1836.5	1763.7	1501.5	1366.9	1052.8
75°	691.9	692.9	783.6	982.0	1628.1	1680.0	1706.9	1680.9	1414.7	1202.4	810.6
77.5°	436.7	449.6	542.4	743.8	1279.2	1332.0	1344.0	1312.1	990.0	737.8	349.0
80°	196.4	216.3	311.1	502.5	870.4	868.4	875.4	796.6	527.4	234.3	38.9
82.5°	70.8	74.8	130.6	252.2	421.7	432.7	427.7	367.9	142.6	32.9	23.9
85°	29.9	31.9	42.9	67.8	95.7	101.7	87.7	66.8	22.9	18.9	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°	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9	377.9
2.5°	376.9	377.9	378.9	380.9	380.9	381.9	382.8	383.8	383.8	383.8	383.8
5°	379.9	380.9	381.9	384.8	386.8	387.8	389.8	390.8	391.8	391.8	391.8
7.5°	383.8	384.8	386.8	389.8	392.8	394.8	396.8	397.8	398.8	398.8	398.8
10°	389.8	391.8	394.8	398.8	401.8	401.8	402.8	403.8	404.8	404.8	404.8
12.5°	397.8	399.8	404.8	409.8	410.8	409.8	407.8	407.8	406.8	405.8	405.8
15°	410.8	411.8	418.7	422.7	419.7	414.8	410.8	406.8	403.8	401.8	401.8
17.5°	428.7	431.7	438.7	438.7	430.7	421.7	411.8	401.8	393.8	390.8	389.8
20°	454.6	458.6	464.6	458.6	445.7	429.7	411.8	395.8	379.9	369.9	366.9
22.5°	483.5	488.5	490.5	477.6	458.6	436.7	412.8	387.8	361.9	340.0	334.0
25°	517.4	520.4	513.5	492.5	466.6	438.7	409.8	376.9	337.0	308.1	305.1
27.5°	557.3	554.3	535.4	503.5	468.6	434.7	398.8	354.9	305.1	283.1	280.2
30°	600.2	589.2	554.3	509.5	462.6	422.7	379.9	322.0	281.2	263.2	261.2
32.5°	651.0	629.1	572.3	510.5	451.6	401.8	349.0	295.1	265.2	245.3	243.3
35°	707.9	674.0	588.2	504.5	429.7	372.9	312.1	275.2	248.3	229.3	225.3
37.5°	784.6	734.8	608.2	491.5	401.8	336.0	285.1	254.2	231.3	210.4	207.4
40°	863.4	804.6	636.1	476.6	370.9	306.1	262.2	239.3	219.3	195.4	190.4
42.5°	942.2	874.4	674.0	458.6	340.0	283.1	252.2	237.3	213.4	188.4	183.4
45°	1007.0	934.2	709.9	437.7	309.1	262.2	246.3	233.3	209.4	182.5	176.5
47.5°	1062.8	984.0	740.8	418.7	279.2	246.3	241.3	226.3	203.4	176.5	170.5
50°	1109.7	1023.9	765.7	402.8	254.2	235.3	231.3	213.4	189.4	166.5	162.5
52.5°	1150.5	1052.8	776.7	397.8	229.3	222.3	215.4	197.4	175.5	154.5	148.6
55°	1177.5	1074.8	774.7	397.8	205.4	204.4	196.4	182.5	166.5	149.6	143.6
57.5°	1198.4	1084.7	759.7	340.0	185.4	181.5	176.5	170.5	160.5	141.6	135.6
60°	1208.4	1078.8	727.8	247.3	165.5	158.5	162.5	160.5	150.5	124.6	120.6
62.5°	1202.4	1060.8	656.0	180.5	144.6	143.6	149.6	145.6	126.6	103.7	101.7
65°	1179.5	1015.9	564.3	135.6	132.6	139.6	142.6	134.6	116.6	95.7	87.7
67.5°	1120.6	929.2	410.8	121.6	128.6	136.6	138.6	127.6	109.7	89.7	79.8
70°	1012.0	765.7	213.4	112.7	122.6	132.6	131.6	117.6	99.7	81.8	69.8
72.5°	820.5	543.4	80.8	100.7	113.7	123.6	121.6	105.7	70.8	50.8	45.9
75°	532.4	260.2	69.8	86.7	101.7	110.7	111.7	95.7	61.8	42.9	36.9
77.5°	182.5	47.9	56.8	71.8	87.7	99.7	96.7	76.8	47.9	31.9	28.9
80°	30.9	31.9	43.9	50.8	60.8	79.8	67.8	54.8	37.9	22.9	18.9
82.5°	21.9	26.9	30.9	29.9	41.9	52.8	45.9	36.9	24.9	17.9	16.0
85°	16.0	17.9	16.9	17.9	23.9	34.9	31.9	25.9	17.9	13.0	11.0
87.5°	6.0	6.0	8.0	10.0	15.0	21.9	18.9	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)