

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: P507448

Luminaire Tested: **VERD-S-CA1-20-740-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
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-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 430mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3275 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

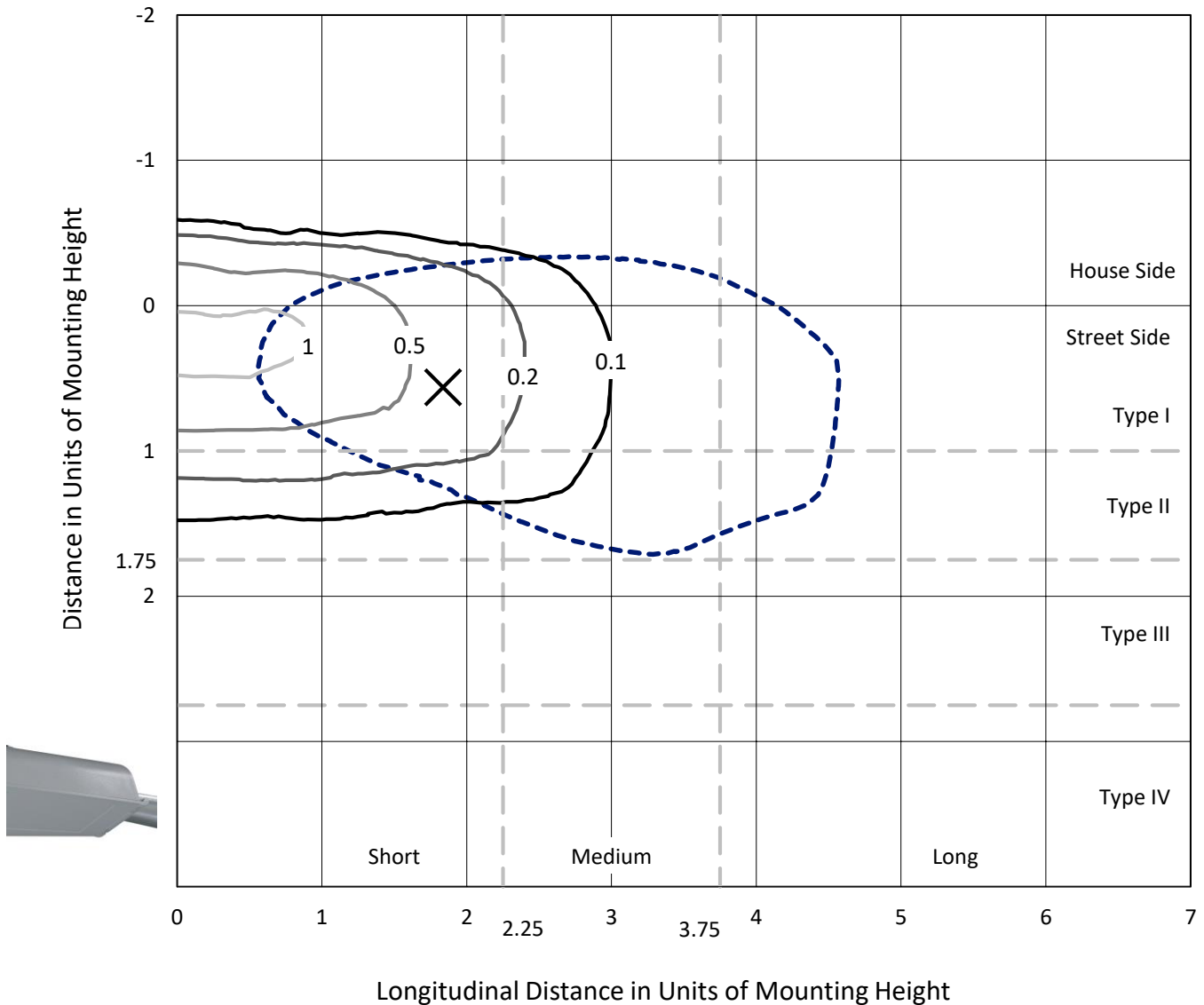
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

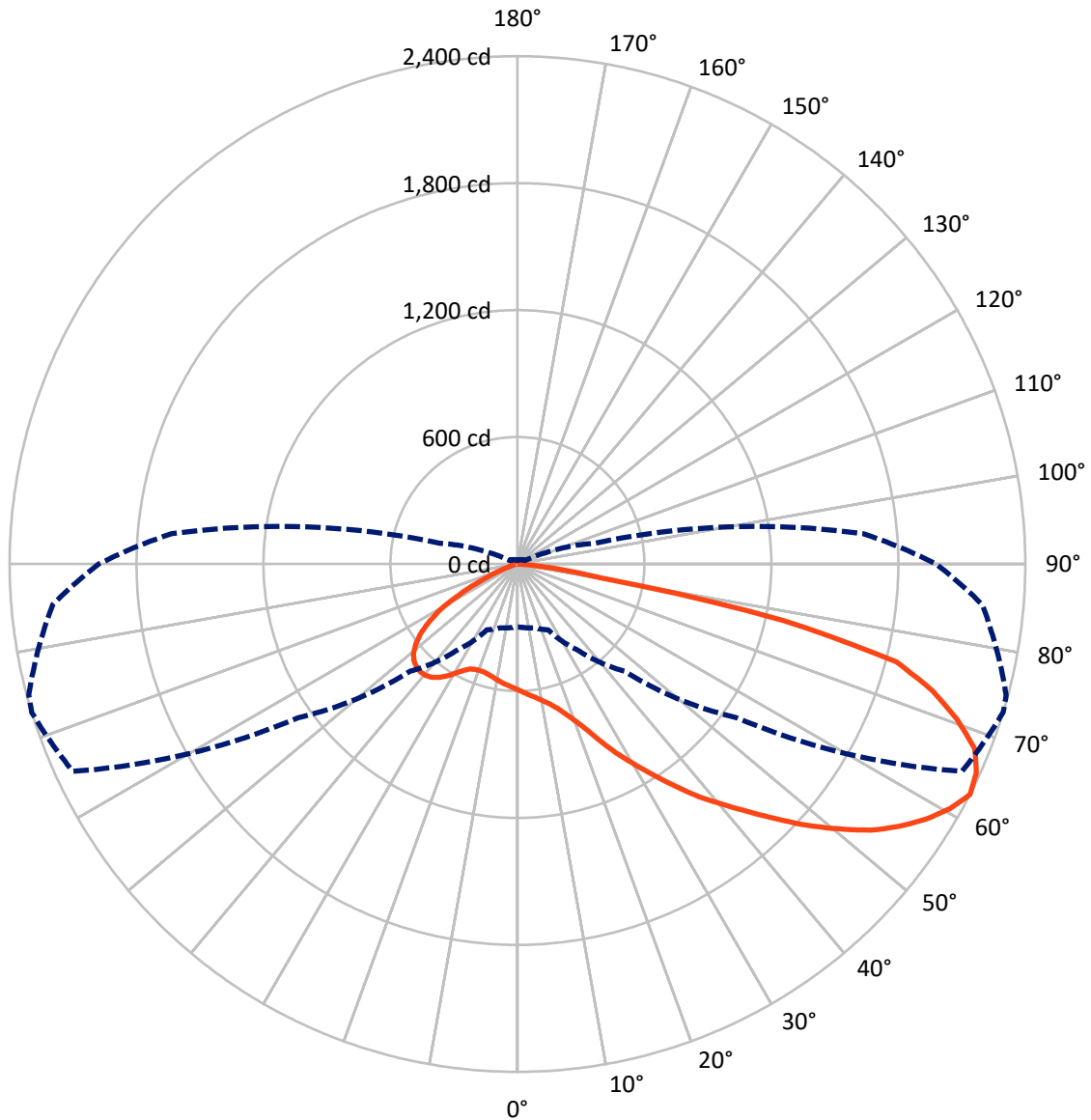
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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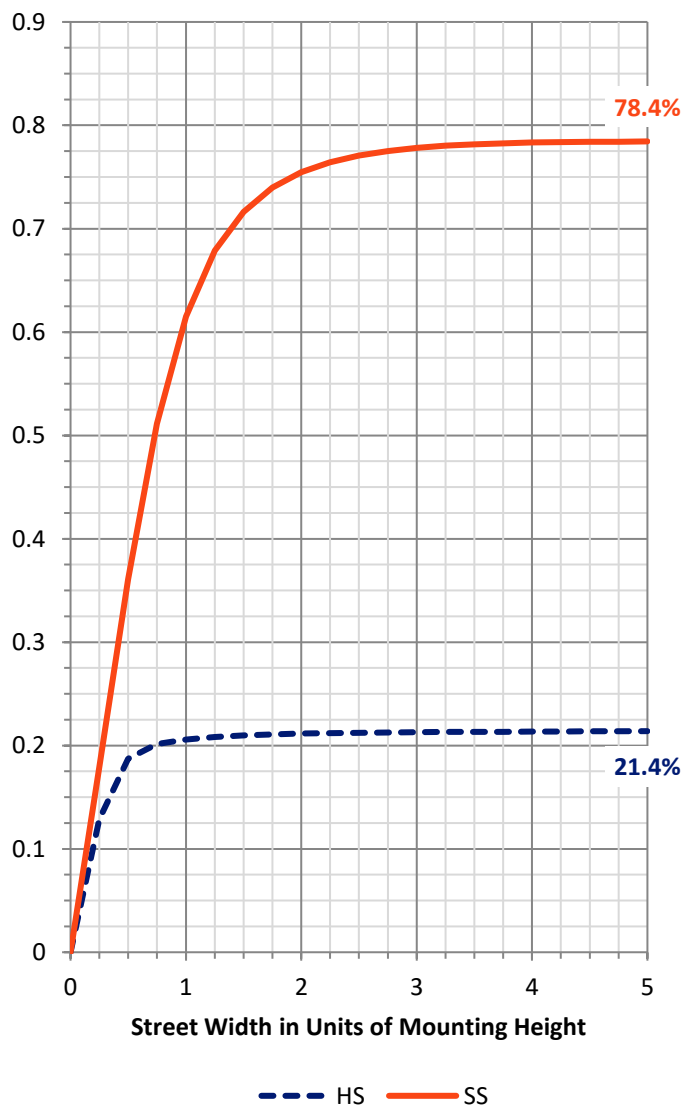
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.4	0.0	709.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2565.6	0.0	2565.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	3275.0	0.0	3275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	1.7
10°-20°	171.3	5.2
20°-30°	296.3	9.0
30°-40°	435.1	13.3
40°-50°	565.6	17.3
50°-60°	655.7	20.0
60°-70°	659.9	20.2
70°-80°	402.2	12.3
80°-90°	32.0	1.0
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°	3275.0	100.0
0°-180°	3275.0	100.0

Coefficient of Utilization



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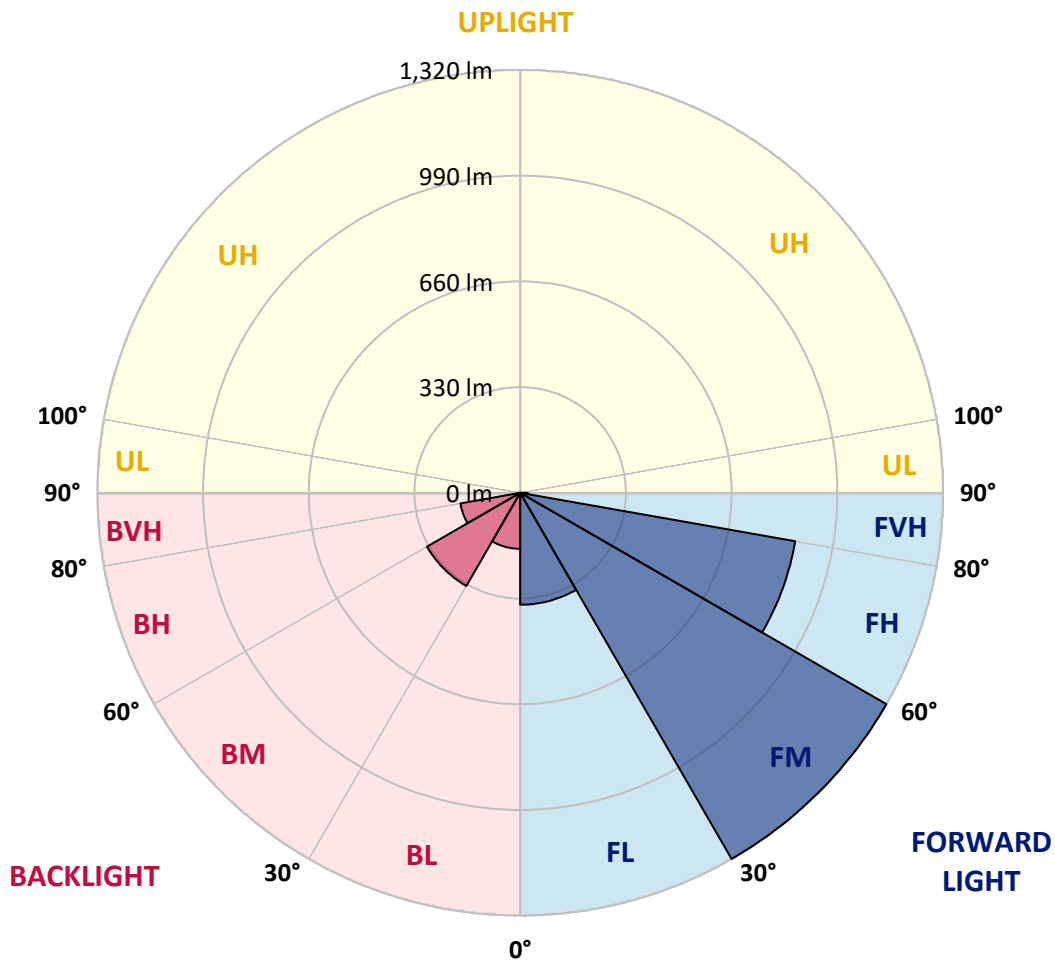
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.6	10.7			
FM	(30°-60°)	1320.4	40.3			
FH	(60°-80°)	872.4	26.6			G1/1800
FVH	(80°-90°)	23.3	0.7			G1/100
BL	(0°-30°)	174.9	5.3	B1/500		
BM	(30°-60°)	336.0	10.3	B1/1000		
BH	(60°-80°)	189.7	5.8	B1/500		G1/500
BVH	(80°-90°)	8.8	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9
2.5°	634.9	634.9	633.9	632.9	628.9	624.9	618.9	613.9	608.9	606.9	598.9
5°	671.9	671.9	670.9	666.9	661.9	654.9	644.9	631.9	622.9	621.9	607.9
7.5°	702.9	701.9	700.9	698.9	693.9	684.9	669.9	652.9	637.9	633.9	616.9
10°	732.9	733.9	731.9	726.9	720.9	709.9	694.9	674.9	656.9	650.9	624.9
12.5°	764.9	763.9	760.9	754.9	746.9	737.9	721.9	701.9	677.9	671.9	637.9
15°	791.9	792.9	787.9	783.9	775.9	765.9	751.9	731.9	707.9	700.9	656.9
17.5°	815.9	815.9	814.9	812.9	806.9	799.9	785.9	771.9	746.9	735.9	685.9
20°	833.9	834.9	836.9	840.9	841.9	835.9	828.9	818.9	794.9	783.9	721.9
22.5°	849.9	851.9	859.9	871.9	881.9	881.9	880.9	879.9	855.9	848.9	774.9
25°	853.9	856.9	874.9	900.9	916.9	929.9	947.9	954.9	936.9	924.9	843.9
27.5°	859.9	862.9	882.9	913.9	953.9	982.9	1014.9	1032.9	1019.9	1007.9	922.9
30°	854.9	858.9	880.9	924.9	977.9	1038.9	1078.9	1105.9	1101.9	1094.9	1004.9
32.5°	841.9	845.9	871.9	925.9	1006.9	1095.9	1140.9	1182.9	1193.9	1187.9	1090.9
35°	815.9	819.9	851.9	917.9	1020.9	1138.9	1202.9	1264.9	1289.9	1285.9	1184.9
37.5°	782.9	782.9	820.9	893.9	1025.9	1171.9	1257.9	1346.8	1395.8	1389.8	1279.9
40°	727.9	737.9	784.9	867.9	1017.9	1195.9	1310.8	1431.8	1492.8	1489.8	1382.8
42.5°	672.9	680.9	725.9	822.9	998.9	1209.9	1354.8	1520.8	1599.8	1597.8	1481.8
45°	623.9	629.9	666.9	760.9	958.9	1213.9	1396.8	1615.8	1717.8	1713.8	1582.8
47.5°	560.9	572.9	619.9	702.9	903.9	1201.9	1435.8	1734.8	1845.8	1841.8	1691.8
50°	425.0	432.9	530.9	655.9	832.9	1171.9	1467.8	1851.8	1966.8	1958.8	1790.8
52.5°	386.0	391.0	422.0	597.9	766.9	1117.9	1487.8	1991.8	2089.8	2076.8	1892.8
55°	361.0	365.0	383.0	478.9	708.9	1026.9	1493.8	2123.8	2188.7	2175.7	1986.8
57.5°	339.0	341.0	359.0	408.0	639.9	911.9	1472.8	2221.7	2275.7	2261.7	2067.8
60°	316.0	319.0	336.0	372.0	556.9	805.9	1407.8	2299.7	2347.7	2335.7	2138.8
62.5°	297.0	301.0	312.0	343.0	496.9	715.9	1265.9	2317.7	2399.7	2390.7	2204.7
65°	274.0	277.0	291.0	317.0	434.9	659.9	1121.9	2264.7	2382.7	2393.7	2241.7
67.5°	247.0	250.0	262.0	282.0	365.0	600.9	995.9	2189.7	2330.7	2345.7	2214.7
70°	214.0	216.0	228.0	247.0	303.0	523.9	863.9	2079.8	2204.7	2215.7	2107.8
72.5°	178.0	178.0	187.0	209.0	249.0	433.9	692.9	1847.8	2050.8	2077.8	1926.8
75°	75.0	79.0	95.0	115.0	159.0	317.0	473.9	1422.8	1849.8	1872.8	1701.8
77.5°	15.0	16.0	18.0	27.0	42.0	138.0	147.0	620.9	1283.9	1298.8	1242.9
80°	12.0	12.0	13.0	20.0	28.0	64.0	48.0	203.0	400.0	514.9	663.9
82.5°	4.0	5.0	7.0	11.0	14.0	14.0	16.0	102.0	198.0	213.0	268.0
85°	2.0	2.0	3.0	4.0	4.0	4.0	4.0	18.0	34.0	41.0	57.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	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°	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9
2.5°	594.9	591.9	584.9	579.9	572.9	566.9	559.9	555.9	553.9	552.9	550.9
5°	599.9	591.9	577.9	562.9	549.9	539.9	525.9	518.9	514.9	512.9	511.9
7.5°	605.9	595.9	571.9	548.9	525.9	508.9	491.9	480.9	475.9	474.9	473.9
10°	609.9	593.9	561.9	536.9	506.9	479.9	459.9	446.9	439.9	438.9	437.9
12.5°	617.9	596.9	553.9	517.9	486.9	451.9	430.9	416.0	409.0	403.0	403.0
15°	630.9	603.9	549.9	501.9	460.9	427.0	400.0	384.0	379.0	371.0	369.0
17.5°	652.9	616.9	546.9	485.9	436.9	403.0	371.0	354.0	351.0	344.0	340.0
20°	679.9	635.9	548.9	470.9	412.0	373.0	341.0	324.0	314.0	308.0	306.0
22.5°	722.9	663.9	555.9	459.9	390.0	346.0	312.0	285.0	263.0	255.0	255.0
25°	783.9	711.9	567.9	450.9	368.0	320.0	278.0	232.0	203.0	192.0	189.0
27.5°	852.9	772.9	595.9	442.9	350.0	291.0	229.0	178.0	147.0	137.0	137.0
30°	931.9	836.9	629.9	437.9	328.0	247.0	173.0	130.0	105.0	94.0	93.0
32.5°	1009.9	902.9	669.9	433.9	305.0	193.0	125.0	95.0	74.0	66.0	67.0
35°	1087.9	967.9	703.9	433.9	267.0	139.0	89.0	66.0	53.0	49.0	49.0
37.5°	1175.9	1040.9	730.9	428.0	210.0	99.0	61.0	48.0	44.0	42.0	42.0
40°	1266.9	1108.9	748.9	415.0	150.0	68.0	43.0	42.0	40.0	37.0	36.0
42.5°	1351.8	1186.9	759.9	390.0	98.0	45.0	38.0	39.0	38.0	33.0	32.0
45°	1441.8	1249.9	765.9	340.0	65.0	37.0	34.0	36.0	37.0	33.0	32.0
47.5°	1531.8	1318.8	769.9	265.0	43.0	36.0	32.0	35.0	36.0	32.0	31.0
50°	1626.8	1381.8	763.9	170.0	38.0	34.0	31.0	32.0	34.0	32.0	31.0
52.5°	1709.8	1438.8	735.9	95.0	37.0	33.0	29.0	30.0	33.0	31.0	31.0
55°	1794.8	1494.8	683.9	56.0	36.0	31.0	29.0	30.0	31.0	29.0	30.0
57.5°	1871.8	1548.8	605.9	46.0	36.0	30.0	30.0	28.0	28.0	26.0	26.0
60°	1930.8	1597.8	512.9	43.0	34.0	31.0	28.0	26.0	24.0	22.0	22.0
62.5°	1977.8	1639.8	381.0	40.0	33.0	30.0	26.0	23.0	20.0	18.0	18.0
65°	2003.8	1648.8	269.0	36.0	31.0	29.0	24.0	20.0	16.0	15.0	15.0
67.5°	1973.8	1601.8	164.0	34.0	29.0	28.0	23.0	18.0	14.0	13.0	13.0
70°	1858.8	1475.8	92.0	31.0	26.0	25.0	21.0	16.0	13.0	11.0	11.0
72.5°	1668.8	1290.9	46.0	26.0	22.0	22.0	19.0	14.0	12.0	10.0	10.0
75°	1409.8	1058.9	33.0	19.0	18.0	18.0	16.0	13.0	11.0	9.0	9.0
77.5°	1032.9	697.9	27.0	16.0	13.0	13.0	14.0	12.0	10.0	8.0	8.0
80°	534.9	346.0	23.0	12.0	11.0	10.0	10.0	10.0	8.0	7.0	7.0
82.5°	237.0	133.0	15.0	9.0	9.0	8.0	8.0	8.0	7.0	6.0	6.0
85°	46.0	25.0	8.0	7.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0
87.5°	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
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)