

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: P234039

Luminaire Tested: **VERD-C013-D-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C013-D-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 560mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2742 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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: 28.75 FT

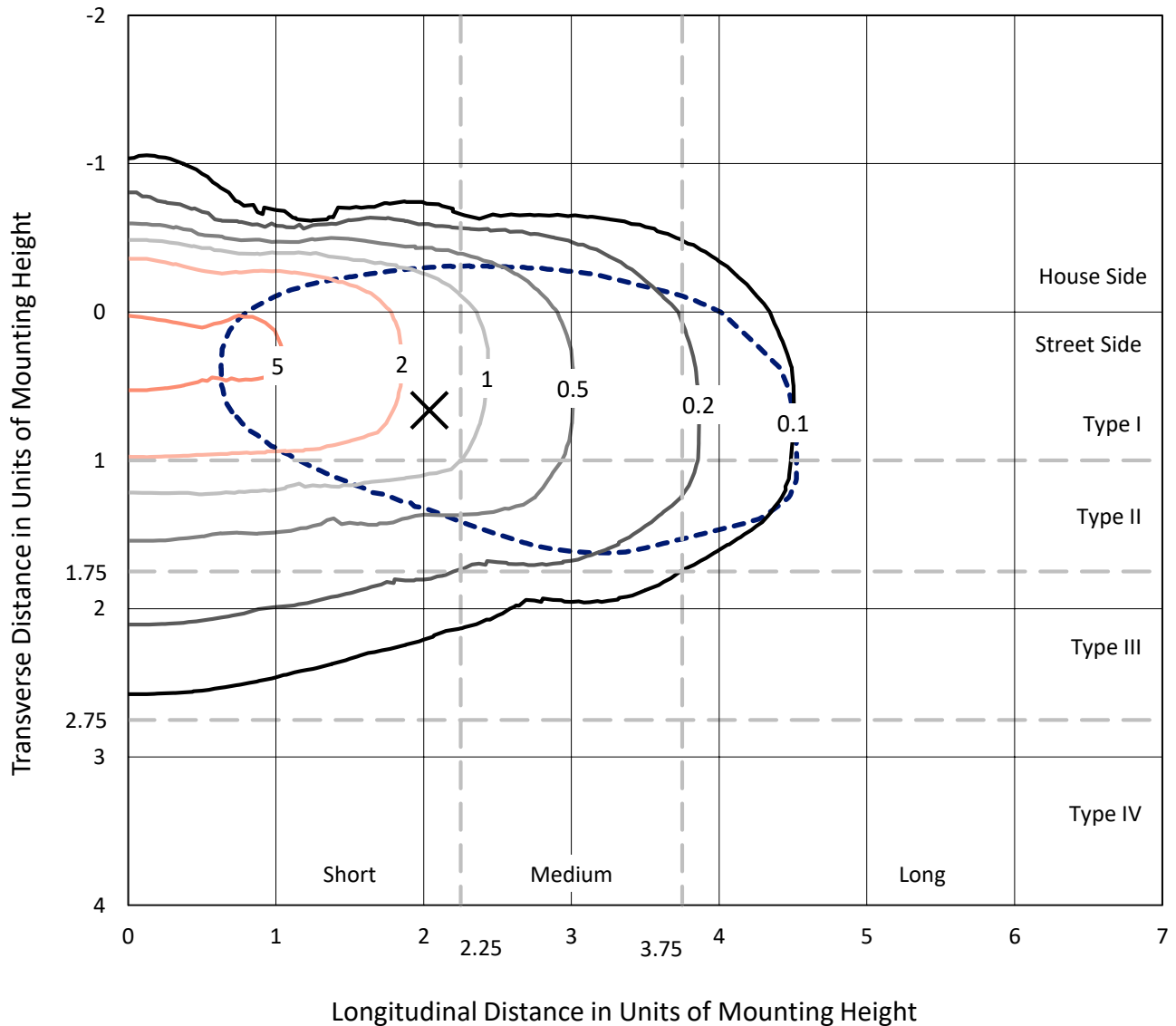


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

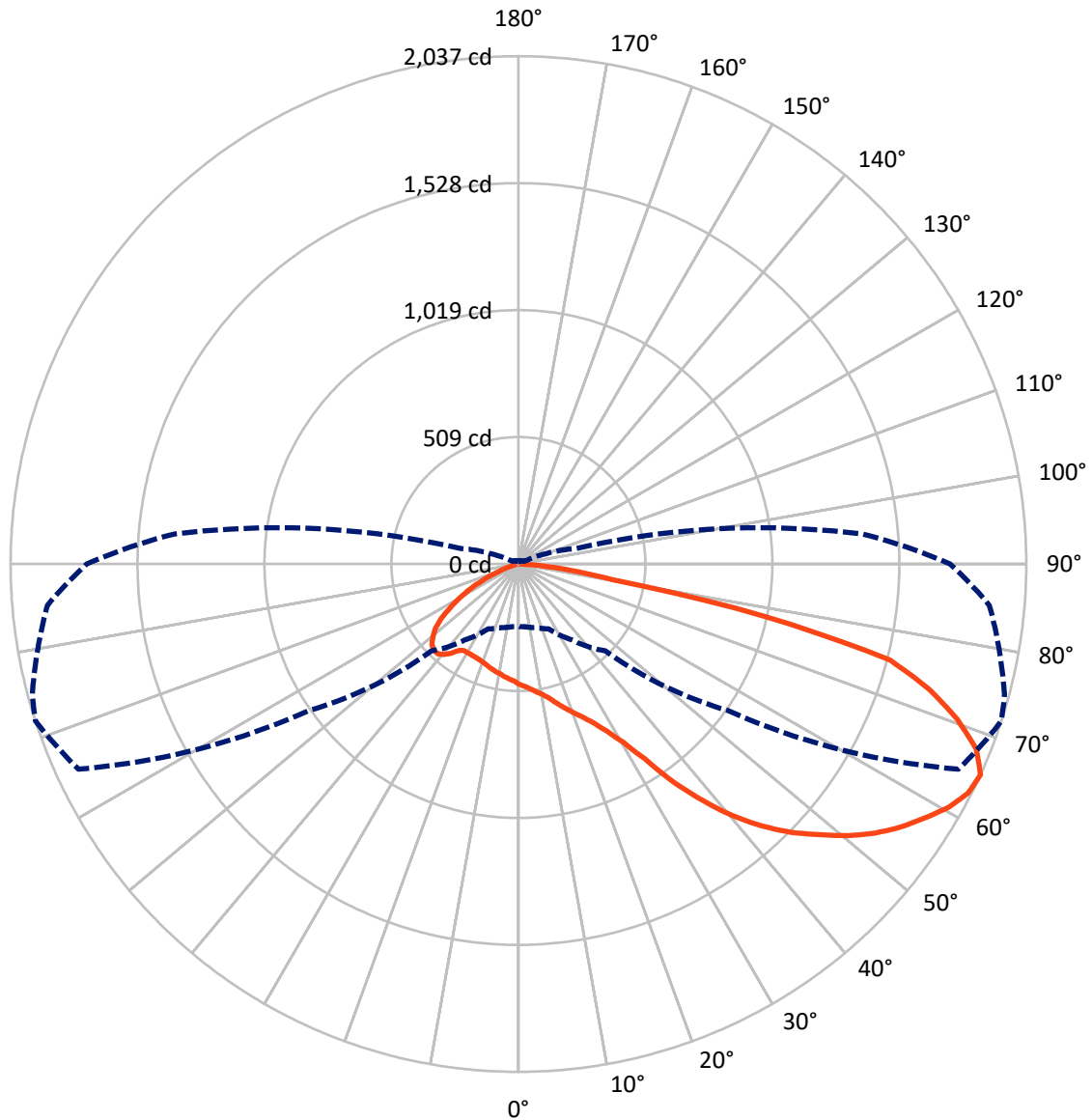


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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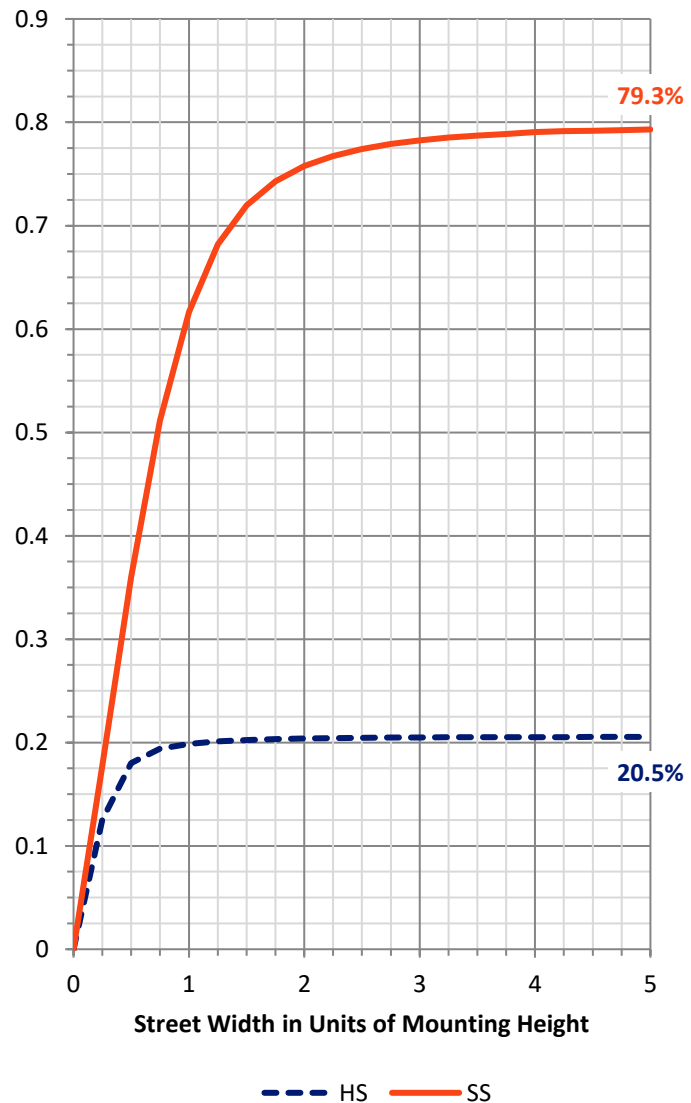
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	569.8	0.0	569.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	2172.2	0.0	2172.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	2742.0	0.0	2742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.7
10°-20°	140.6	5.1
20°-30°	234.9	8.6
30°-40°	347.5	12.7
40°-50°	480.4	17.5
50°-60°	562.2	20.5
60°-70°	558.8	20.4
70°-80°	334.7	12.2
80°-90°	36.4	1.3
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°	2742.0	100.0
0°-180°	2742.0	100.0

Coefficient of Utilization



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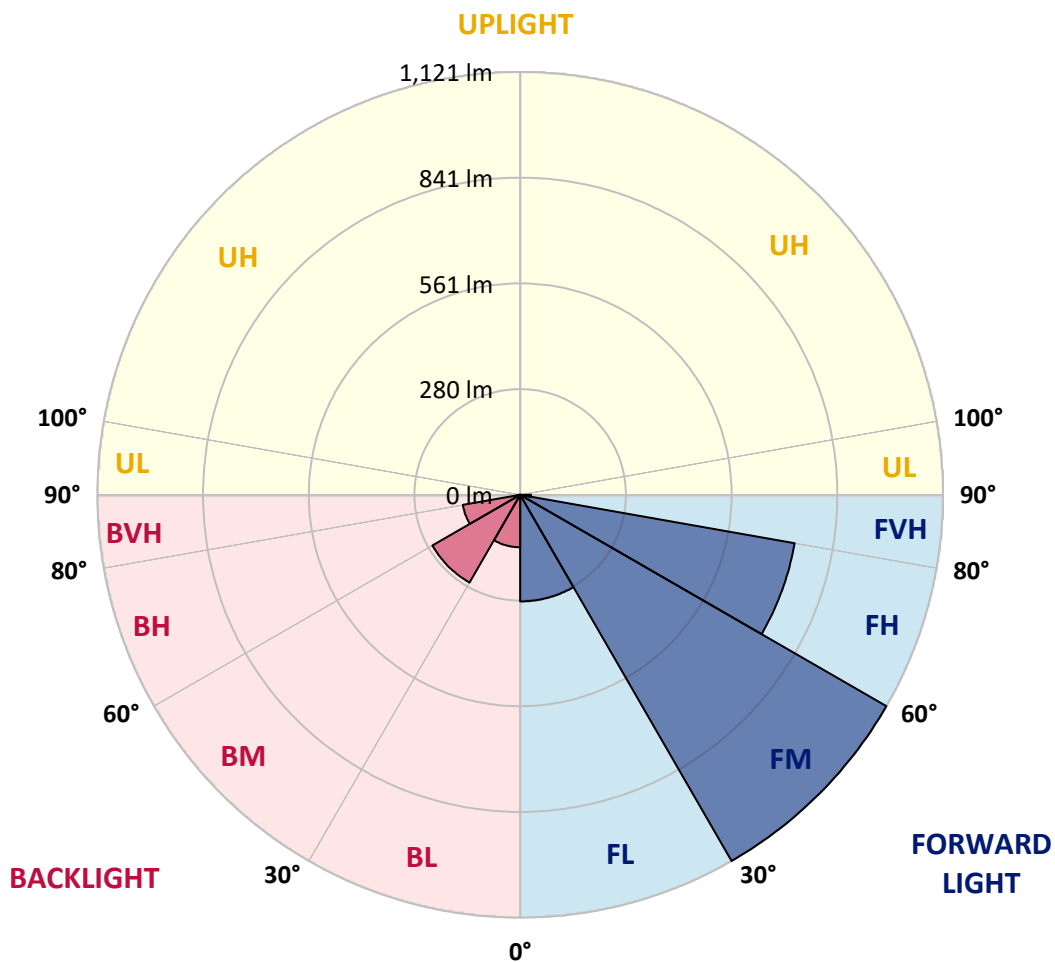
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.8	10.3			
FM	(30°-60°)	1121.4	40.9			
FH	(60°-80°)	739.3	27.0			G1/1800
FVH	(80°-90°)	28.8	1.1			G1/100
BL	(0°-30°)	139.1	5.1	B1/500		
BM	(30°-60°)	268.8	9.8	B1/1000		
BH	(60°-80°)	154.3	5.6	B1/500		G1/500
BVH	(80°-90°)	7.6	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°	72°	75°	85°
0°	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3
2.5°	524.0	524.4	524.6	516.4	511.9	506.7	501.8	496.5	490.9	488.8	481.5
5°	556.2	556.6	555.3	547.7	539.4	531.8	522.4	512.8	503.4	500.7	488.2
7.5°	587.3	587.1	585.9	576.3	566.0	556.0	542.8	529.8	517.5	513.2	494.7
10°	613.0	613.5	614.1	603.8	593.8	581.7	565.6	546.3	532.2	525.5	501.4
12.5°	641.2	639.9	641.7	631.6	617.7	606.7	592.2	569.6	552.8	544.3	514.3
15°	673.4	673.4	671.0	662.7	648.6	635.2	620.6	599.8	579.7	566.7	531.8
17.5°	695.6	694.2	693.6	686.4	674.3	662.7	651.5	630.2	608.3	592.4	548.1
20°	705.0	705.4	708.5	703.4	696.9	690.0	677.7	661.1	637.0	619.9	565.6
22.5°	723.1	723.5	727.3	723.8	722.0	720.2	708.8	694.2	668.5	652.2	587.5
25°	724.2	724.7	734.9	740.8	749.9	754.2	746.4	733.8	707.7	691.8	620.2
27.5°	727.6	728.9	739.4	755.5	779.7	788.2	783.7	783.3	761.1	744.3	662.7
30°	724.7	726.0	741.2	763.6	797.1	822.2	827.3	840.5	831.6	819.1	721.7
32.5°	704.1	709.0	727.1	762.7	812.1	857.5	874.1	919.3	932.7	934.1	840.3
35°	666.7	669.4	702.3	752.4	822.2	890.9	936.5	1020.0	1076.8	1074.3	971.6
37.5°	638.3	639.2	673.0	734.9	827.8	926.7	1007.7	1141.2	1206.6	1209.5	1090.2
40°	601.8	608.3	640.8	713.9	824.7	956.9	1078.4	1254.2	1330.3	1327.2	1194.3
42.5°	567.8	571.6	603.8	681.0	813.2	979.9	1147.7	1363.6	1438.3	1428.1	1294.0
45°	532.5	539.0	568.5	638.5	790.7	992.9	1210.6	1467.4	1535.9	1523.1	1382.0
47.5°	497.1	501.8	533.1	599.6	748.1	992.5	1272.3	1564.8	1622.5	1613.5	1465.2
50°	378.3	388.6	470.9	558.9	688.4	973.7	1322.2	1657.2	1713.3	1699.4	1546.4
52.5°	346.8	350.1	373.2	511.7	624.6	928.9	1361.2	1744.0	1793.4	1777.5	1622.9
55°	327.8	331.8	341.2	415.9	572.3	855.3	1377.3	1824.9	1861.9	1845.8	1691.2
57.5°	302.5	306.5	325.1	358.2	517.7	743.2	1353.6	1896.8	1922.5	1904.8	1754.5
60°	285.0	286.8	304.7	330.7	458.0	630.0	1274.4	1955.2	1982.0	1961.0	1817.1
62.5°	268.9	270.9	283.7	309.4	408.5	547.0	1151.1	1969.5	2024.3	2008.0	1874.4
65°	250.4	252.1	263.8	286.6	370.3	492.9	1024.0	1947.5	2037.3	2018.7	1896.5
67.5°	225.7	228.2	237.4	258.0	320.2	431.6	835.0	1907.1	1980.4	1961.2	1851.1
70°	195.3	196.4	207.4	226.0	270.5	374.5	654.9	1763.0	1867.9	1846.6	1723.1
72.5°	157.7	159.7	171.6	191.1	222.2	308.5	467.8	1523.4	1725.4	1717.3	1536.8
75°	105.4	113.2	141.4	161.1	183.7	241.0	314.1	1069.2	1540.4	1546.6	1312.8
77.5°	20.1	20.8	59.3	88.1	107.4	147.2	194.4	525.3	1015.3	1125.1	990.0
80°	13.2	14.3	25.3	61.7	71.1	72.9	99.8	230.2	382.6	483.9	571.0
82.5°	6.9	8.3	15.2	35.8	32.7	18.1	32.7	118.8	212.1	243.6	287.9
85°	2.9	3.4	7.4	12.3	9.2	7.6	7.6	47.4	94.0	108.7	113.0
87.5°	0.4	0.4	1.6	2.2	1.3	0.9	0.7	0.2	0.2	0.2	0.2
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°	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3
2.5°	481.5	477.4	471.8	465.4	460.7	458.2	456.2	450.8	449.0	452.6	451.7
5°	483.5	478.8	466.0	455.5	445.0	438.5	431.3	422.0	417.9	420.2	419.5
7.5°	484.8	479.0	460.0	443.7	426.0	413.7	404.3	392.0	385.9	388.2	385.5
10°	486.8	478.1	452.8	431.1	408.1	390.2	376.3	362.0	355.7	357.5	355.3
12.5°	495.3	481.2	449.5	420.4	392.2	369.8	352.4	337.2	328.2	330.0	328.2
15°	509.2	487.5	444.5	406.7	375.4	349.9	329.8	312.3	302.0	304.5	302.3
17.5°	523.7	495.1	440.1	391.5	357.5	329.1	308.1	293.3	276.8	278.3	275.0
20°	536.3	502.3	437.6	377.2	340.7	307.0	281.7	271.6	248.8	243.0	239.2
22.5°	553.7	512.8	435.6	365.6	319.9	284.8	254.8	236.0	211.4	199.1	198.0
25°	578.6	528.4	435.4	356.4	301.1	261.5	219.7	188.2	166.5	151.9	149.9
27.5°	610.1	549.3	437.8	347.2	282.3	232.2	176.5	141.6	122.2	111.0	109.0
30°	655.5	576.5	441.0	336.7	261.3	194.2	131.6	104.3	88.1	80.1	78.5
32.5°	752.8	646.6	445.7	325.7	236.0	146.3	95.5	75.6	63.3	58.4	60.9
35°	870.1	741.7	466.7	311.7	202.9	104.3	68.9	53.9	45.4	46.5	47.9
37.5°	972.5	832.5	513.9	293.5	158.6	76.5	47.4	40.3	40.3	43.9	47.0
40°	1069.2	914.4	556.2	268.9	111.2	52.8	36.7	37.4	36.7	38.9	38.3
42.5°	1160.5	992.0	589.3	239.6	72.7	36.5	33.3	34.7	33.6	34.0	32.0
45°	1246.8	1072.3	607.6	196.4	48.3	31.8	30.7	32.9	32.7	32.2	30.2
47.5°	1326.7	1143.0	616.8	141.6	33.3	28.6	28.9	30.4	31.1	30.7	29.5
50°	1405.0	1213.5	608.5	84.8	30.0	26.2	27.7	27.7	29.1	26.6	25.7
52.5°	1480.0	1284.2	582.4	51.5	27.5	24.4	25.7	25.3	26.0	23.5	23.0
55°	1550.4	1336.8	530.7	40.5	26.0	23.3	23.5	23.9	22.8	20.1	21.0
57.5°	1624.9	1381.5	458.6	36.7	25.3	21.7	22.1	21.9	20.1	17.7	17.7
60°	1686.2	1414.0	386.4	33.3	24.8	21.3	19.7	19.2	16.6	15.2	15.0
62.5°	1728.5	1423.1	315.9	29.8	23.5	19.7	17.7	16.3	13.9	12.5	12.1
65°	1731.9	1384.0	240.5	26.8	22.1	18.3	16.3	13.4	11.0	9.8	9.4
67.5°	1663.2	1275.2	169.6	24.6	19.9	17.0	14.3	10.7	8.7	7.8	7.6
70°	1519.6	1140.1	103.8	21.5	18.1	15.9	14.8	8.7	7.2	6.0	6.0
72.5°	1333.4	987.5	60.9	18.3	15.2	12.8	9.8	7.4	6.0	4.7	4.7
75°	1142.8	783.9	37.4	13.9	11.2	10.1	7.6	6.3	4.9	3.6	3.6
77.5°	822.9	578.8	29.1	8.9	6.9	7.2	5.6	4.9	4.0	2.9	2.9
80°	505.0	352.4	20.8	6.0	4.0	4.0	4.0	3.8	2.9	2.5	2.2
82.5°	255.9	161.1	10.3	3.6	2.5	2.5	2.5	2.7	2.2	1.8	1.8
85°	89.9	45.2	3.1	1.8	1.6	1.6	1.3	1.3	1.1	0.9	0.9
87.5°	0.2	0.4	0.4	0.7	0.9	0.9	0.7	0.4	0.2	0.0	0.0
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)