

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: P234037

Luminaire Tested: **VERD-C013-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234037
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-T2-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2417 lumens
Efficiency: N/A
Efficacy: 100.7 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

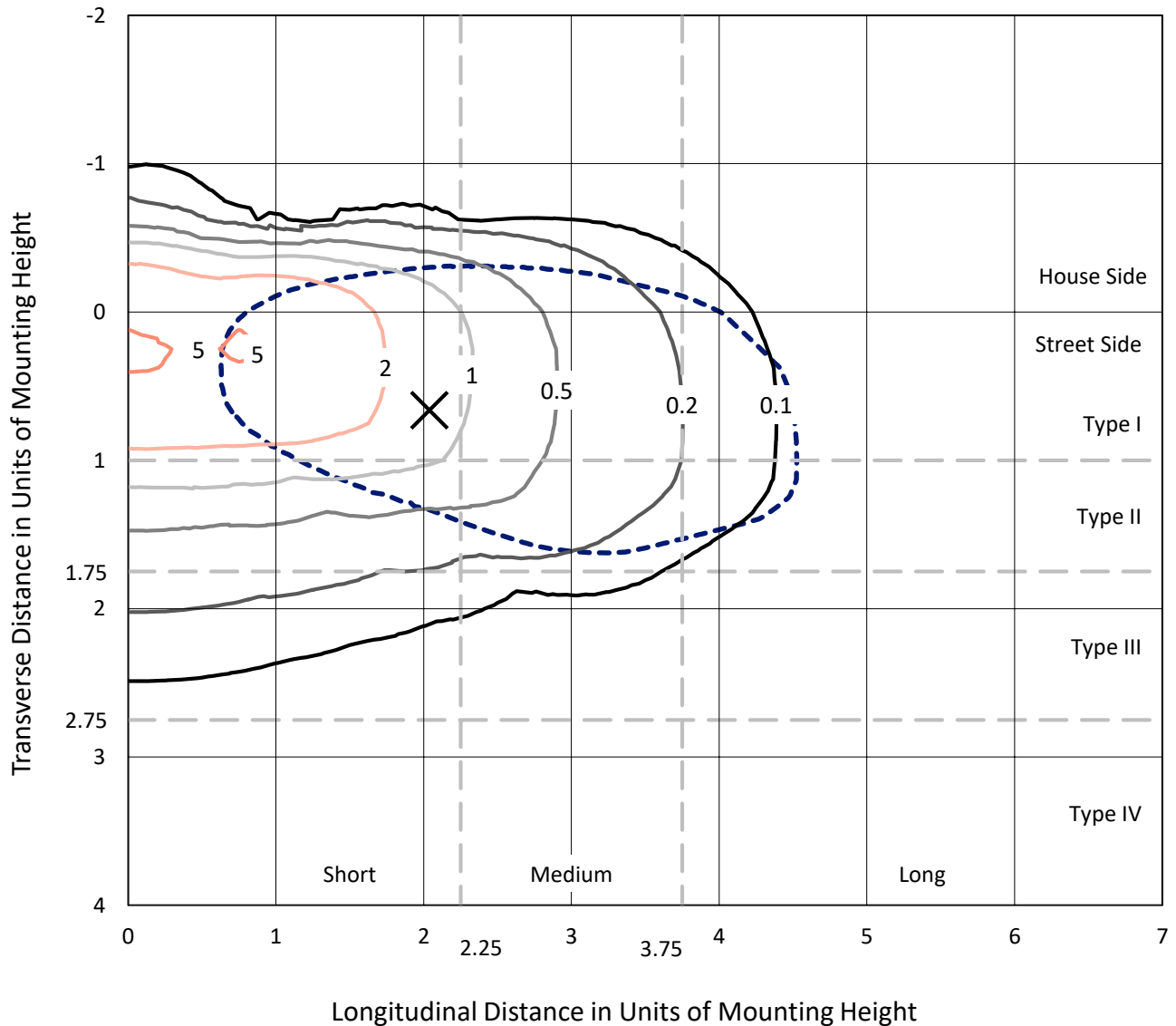
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

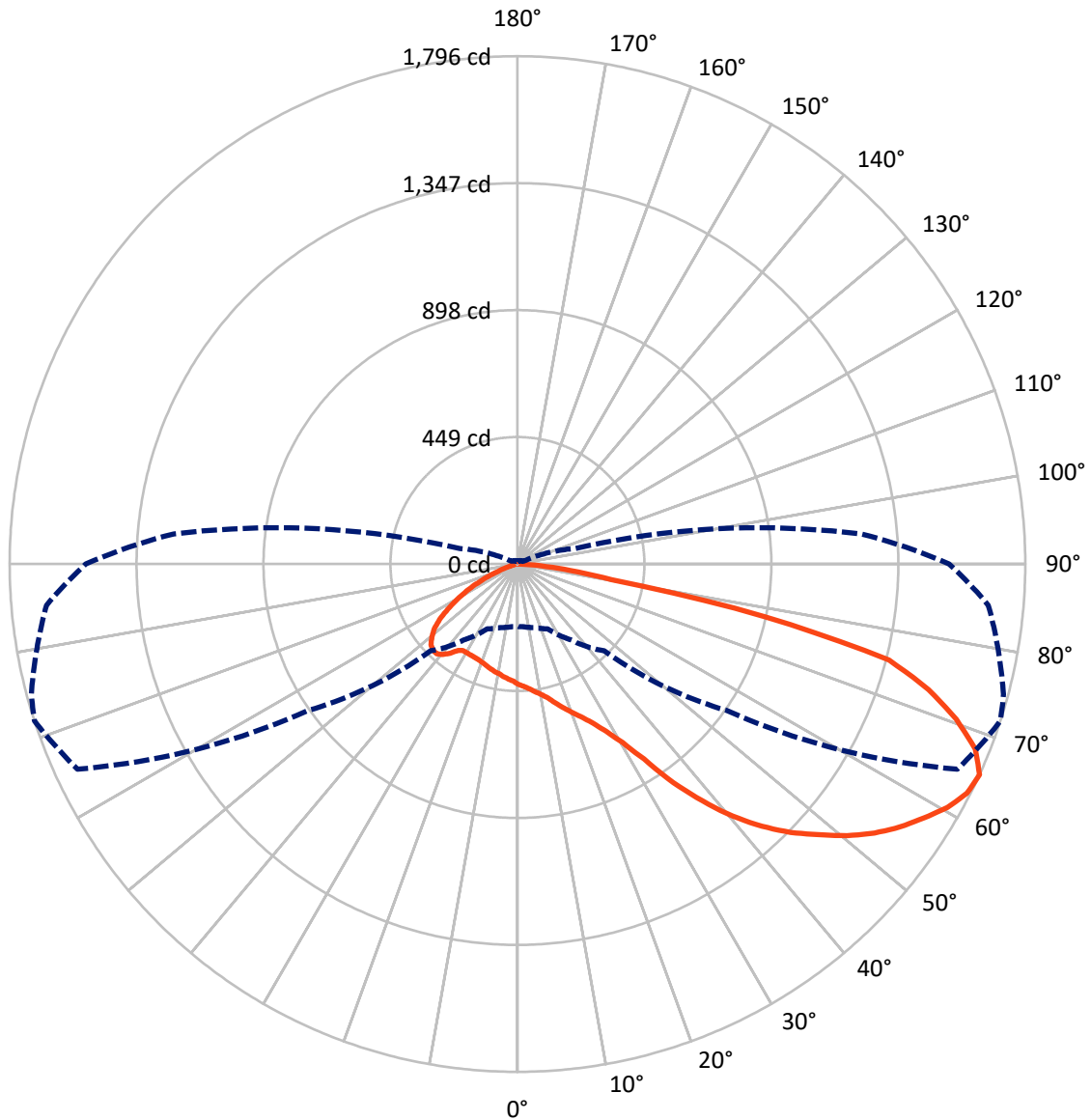
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 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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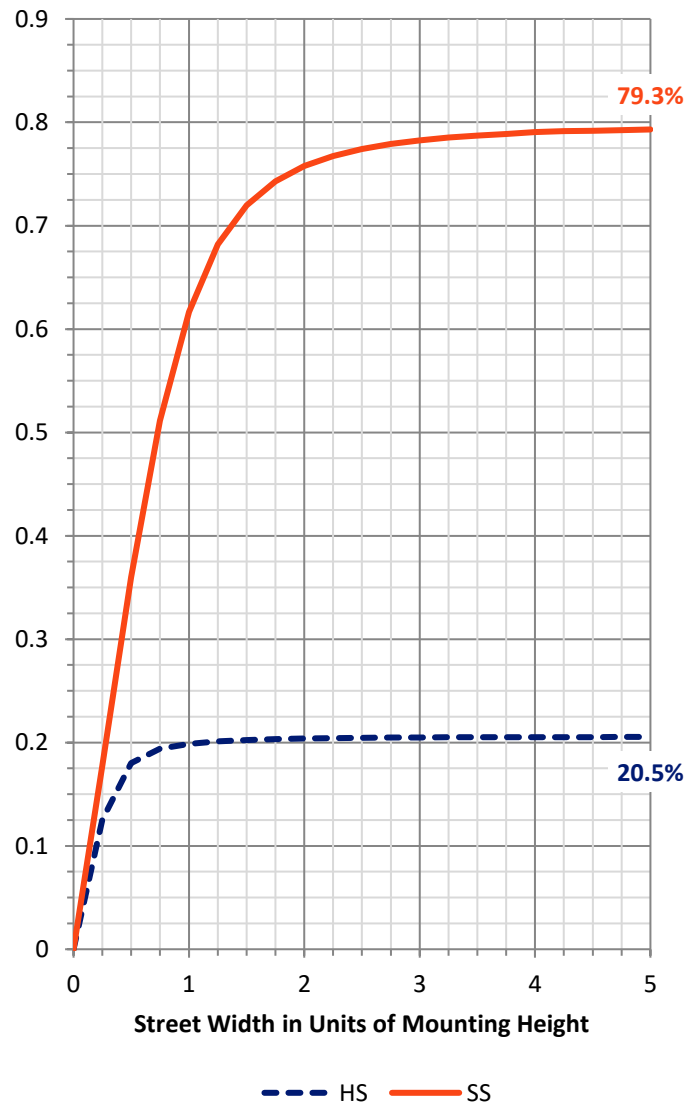
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.3	0.0	502.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	1914.7	0.0	1914.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	2417.0	0.0	2417.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	1.7
10°-20°	123.9	5.1
20°-30°	207.1	8.6
30°-40°	306.3	12.7
40°-50°	423.5	17.5
50°-60°	495.6	20.5
60°-70°	492.6	20.4
70°-80°	295.0	12.2
80°-90°	32.1	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°	2417.0	100.0
0°-180°	2417.0	100.0



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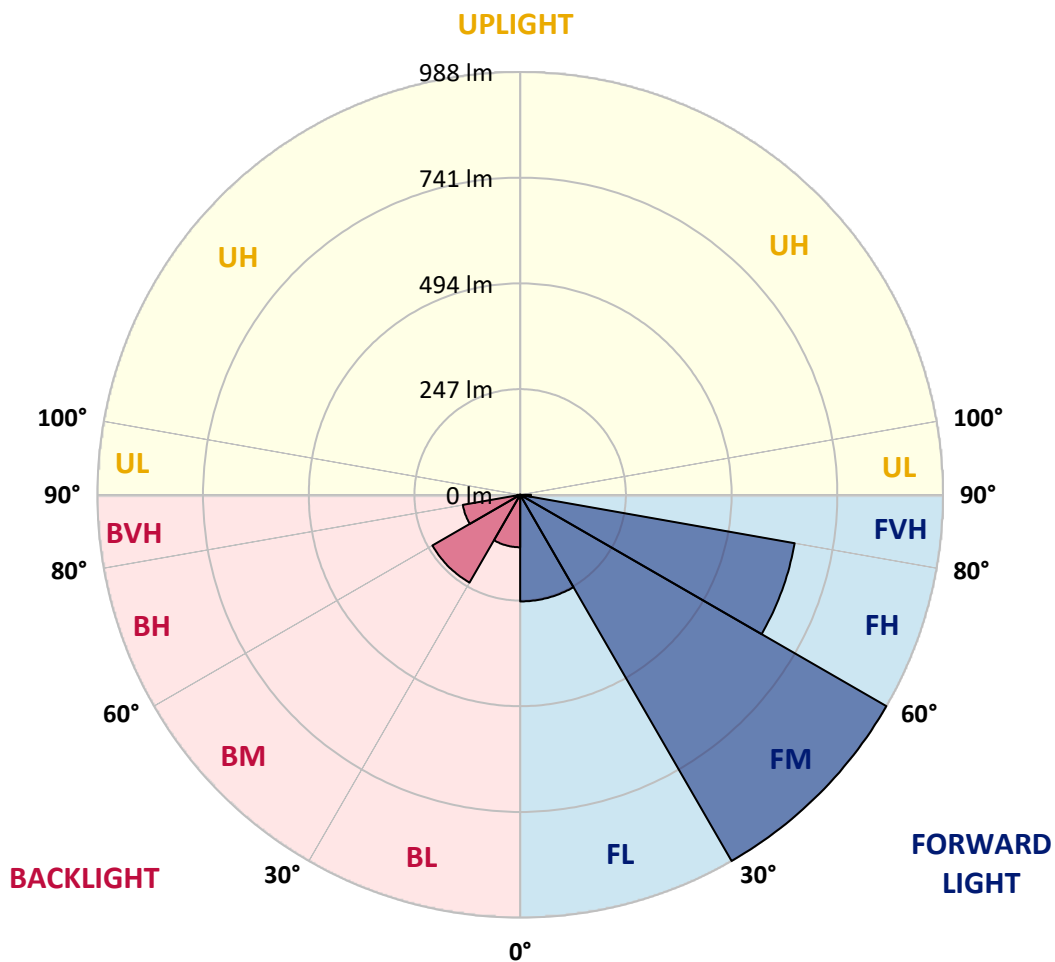
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.2	10.3			
FM	(30°-60°)	988.5	40.9			
FH	(60°-80°)	651.6	27.0			G0/660
FVH	(80°-90°)	25.4	1.1			G1/100
BL	(0°-30°)	122.6	5.1	B1/500		
BM	(30°-60°)	236.9	9.8	B1/1000		
BH	(60°-80°)	136.0	5.6	B1/500		G1/500
BVH	(80°-90°)	6.7	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°	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0
2.5°	461.9	462.3	462.5	455.2	451.2	446.7	442.3	437.6	432.7	430.9	424.4
5°	490.3	490.7	489.5	482.8	475.5	468.8	460.5	452.0	443.7	441.4	430.3
7.5°	517.7	517.5	516.5	508.0	498.9	490.1	478.4	467.0	456.1	452.4	436.0
10°	540.4	540.7	541.3	532.3	523.4	512.7	498.5	481.6	469.2	463.2	441.9
12.5°	565.2	564.0	565.6	556.7	544.5	534.8	522.0	502.1	487.3	479.8	453.4
15°	593.6	593.6	591.4	584.1	571.7	559.9	547.1	528.7	511.0	499.5	468.8
17.5°	613.1	611.9	611.4	605.0	594.4	584.1	574.3	555.5	536.2	522.2	483.2
20°	621.4	621.8	624.6	620.0	614.3	608.2	597.3	582.8	561.5	546.5	498.5
22.5°	637.4	637.8	641.1	638.0	636.4	634.8	624.8	611.9	589.3	574.9	517.9
25°	638.4	638.8	647.8	653.0	661.0	664.8	657.9	646.8	623.8	609.8	546.7
27.5°	641.3	642.5	651.8	666.0	687.3	694.8	690.8	690.4	670.9	656.1	584.1
30°	638.8	639.9	653.4	673.1	702.7	724.7	729.3	740.9	733.0	722.0	636.2
32.5°	620.6	625.0	640.9	672.3	715.9	755.9	770.5	810.3	822.2	823.4	740.7
35°	587.7	590.1	619.0	663.2	724.7	785.3	825.5	899.1	949.2	947.0	856.5
37.5°	562.6	563.4	593.2	647.8	729.7	816.8	888.2	1006.0	1063.6	1066.1	961.0
40°	530.5	536.2	564.8	629.3	726.9	843.5	950.6	1105.6	1172.6	1169.8	1052.7
42.5°	500.5	503.9	532.3	600.3	716.9	863.8	1011.7	1202.0	1267.9	1258.8	1140.7
45°	469.4	475.1	501.1	562.8	696.9	875.2	1067.1	1293.5	1353.8	1342.6	1218.2
47.5°	438.2	442.3	470.0	528.5	659.5	874.8	1121.5	1379.3	1430.2	1422.3	1291.5
50°	333.5	342.6	415.1	492.6	606.8	858.3	1165.5	1460.7	1510.2	1498.0	1363.1
52.5°	305.7	308.6	328.9	451.0	550.6	818.8	1199.8	1537.3	1580.8	1566.8	1430.6
55°	288.9	292.5	300.7	366.6	504.5	753.9	1214.0	1608.6	1641.2	1627.0	1490.7
57.5°	266.6	270.2	286.5	315.7	456.3	655.1	1193.1	1671.9	1694.6	1679.0	1546.5
60°	251.2	252.8	268.6	291.5	403.7	555.3	1123.3	1723.4	1747.1	1728.5	1601.7
62.5°	237.0	238.8	250.1	272.7	360.1	482.2	1014.6	1736.0	1784.4	1770.0	1652.2
65°	220.7	222.3	232.5	252.6	326.4	434.5	902.6	1716.7	1795.8	1779.4	1671.7
67.5°	199.0	201.2	209.2	227.4	282.2	380.4	736.0	1681.0	1745.7	1728.7	1631.7
70°	172.2	173.2	182.8	199.2	238.4	330.1	577.2	1554.0	1646.5	1627.8	1518.9
72.5°	139.0	140.8	151.3	168.4	195.8	272.0	412.4	1342.8	1520.9	1513.8	1354.6
75°	92.9	99.8	124.6	142.0	161.9	212.4	276.9	942.5	1357.8	1363.3	1157.2
77.5°	17.7	18.3	52.3	77.7	94.7	129.8	171.4	463.0	894.9	991.8	872.7
80°	11.6	12.6	22.3	54.4	62.7	64.3	88.0	202.9	337.2	426.6	503.3
82.5°	6.1	7.3	13.4	31.6	28.8	16.0	28.8	104.7	187.0	214.8	253.8
85°	2.6	3.0	6.5	10.8	8.1	6.7	6.7	41.8	82.8	95.8	99.6
87.5°	0.4	0.4	1.4	2.0	1.2	0.8	0.6	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°	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0
2.5°	424.4	420.8	415.9	410.2	406.1	403.9	402.1	397.4	395.8	399.0	398.2
5°	426.2	422.0	410.8	401.5	392.3	386.5	380.2	371.9	368.4	370.4	369.8
7.5°	427.4	422.2	405.5	391.1	375.5	364.6	356.4	345.5	340.2	342.2	339.8
10°	429.1	421.4	399.2	380.0	359.7	343.9	331.7	319.1	313.6	315.1	313.2
12.5°	436.6	424.2	396.2	370.6	345.7	326.0	310.6	297.2	289.3	290.9	289.3
15°	448.8	429.7	391.9	358.5	330.9	308.4	290.7	275.3	266.2	268.4	266.4
17.5°	461.7	436.4	387.9	345.1	315.1	290.1	271.6	258.5	243.9	245.3	242.4
20°	472.7	442.7	385.7	332.5	300.4	270.6	248.3	239.4	219.3	214.2	210.8
22.5°	488.1	452.0	384.0	322.2	282.0	251.0	224.6	208.1	186.4	175.5	174.5
25°	510.0	465.8	383.8	314.2	265.4	230.5	193.7	165.9	146.7	133.9	132.1
27.5°	537.8	484.2	385.9	306.1	248.9	204.7	155.6	124.8	107.7	97.8	96.0
30°	577.8	508.2	388.7	296.8	230.3	171.2	116.0	91.9	77.7	70.6	69.2
32.5°	663.6	569.9	392.8	287.1	208.1	129.0	84.2	66.7	55.8	51.5	53.6
35°	766.9	653.8	411.4	274.7	178.9	91.9	60.7	47.5	40.0	41.0	42.2
37.5°	857.3	733.8	453.0	258.7	139.8	67.4	41.8	35.5	35.5	38.7	41.4
40°	942.5	806.0	490.3	237.0	98.0	46.5	32.3	32.9	32.3	34.3	33.7
42.5°	1022.9	874.4	519.5	211.2	64.1	32.1	29.4	30.6	29.6	30.0	28.2
45°	1099.1	945.2	535.6	173.2	42.6	28.0	27.0	29.0	28.8	28.4	26.6
47.5°	1169.5	1007.5	543.7	124.8	29.4	25.2	25.4	26.8	27.4	27.0	26.0
50°	1238.5	1069.7	536.4	74.7	26.4	23.1	24.5	24.5	25.6	23.5	22.7
52.5°	1304.5	1132.0	513.3	45.4	24.3	21.5	22.7	22.3	22.9	20.7	20.3
55°	1366.7	1178.3	467.8	35.7	22.9	20.5	20.7	21.1	20.1	17.7	18.5
57.5°	1432.3	1217.8	404.3	32.3	22.3	19.1	19.5	19.3	17.7	15.6	15.6
60°	1486.4	1246.4	340.6	29.4	21.9	18.7	17.4	17.0	14.6	13.4	13.2
62.5°	1523.6	1254.5	278.5	26.2	20.7	17.4	15.6	14.4	12.2	11.0	10.6
65°	1526.6	1219.9	212.0	23.7	19.5	16.2	14.4	11.8	9.7	8.7	8.3
67.5°	1466.1	1124.1	149.5	21.7	17.6	15.0	12.6	9.5	7.7	6.9	6.7
70°	1339.4	1005.0	91.5	18.9	16.0	14.0	13.0	7.7	6.3	5.3	5.3
72.5°	1175.4	870.5	53.6	16.2	13.4	11.2	8.7	6.5	5.3	4.1	4.1
75°	1007.3	691.0	32.9	12.2	9.9	8.9	6.7	5.5	4.3	3.2	3.2
77.5°	725.3	510.2	25.6	7.9	6.1	6.3	4.9	4.3	3.5	2.6	2.6
80°	445.1	310.6	18.3	5.3	3.5	3.5	3.5	3.4	2.6	2.2	2.0
82.5°	225.6	142.0	9.1	3.2	2.2	2.2	2.2	2.4	2.0	1.6	1.6
85°	79.3	39.8	2.8	1.6	1.4	1.4	1.2	1.2	1.0	0.8	0.8
87.5°	0.2	0.4	0.4	0.6	0.8	0.8	0.6	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)