

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: P129302

Luminaire Tested: **VERD-A016-E-U-T2-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24744)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A016-E-U-T2-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K LED AT 60% STANDARD LUMENS AND TYPE II OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3855 lumens
Efficiency: N/A
Efficacy: 107.1 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

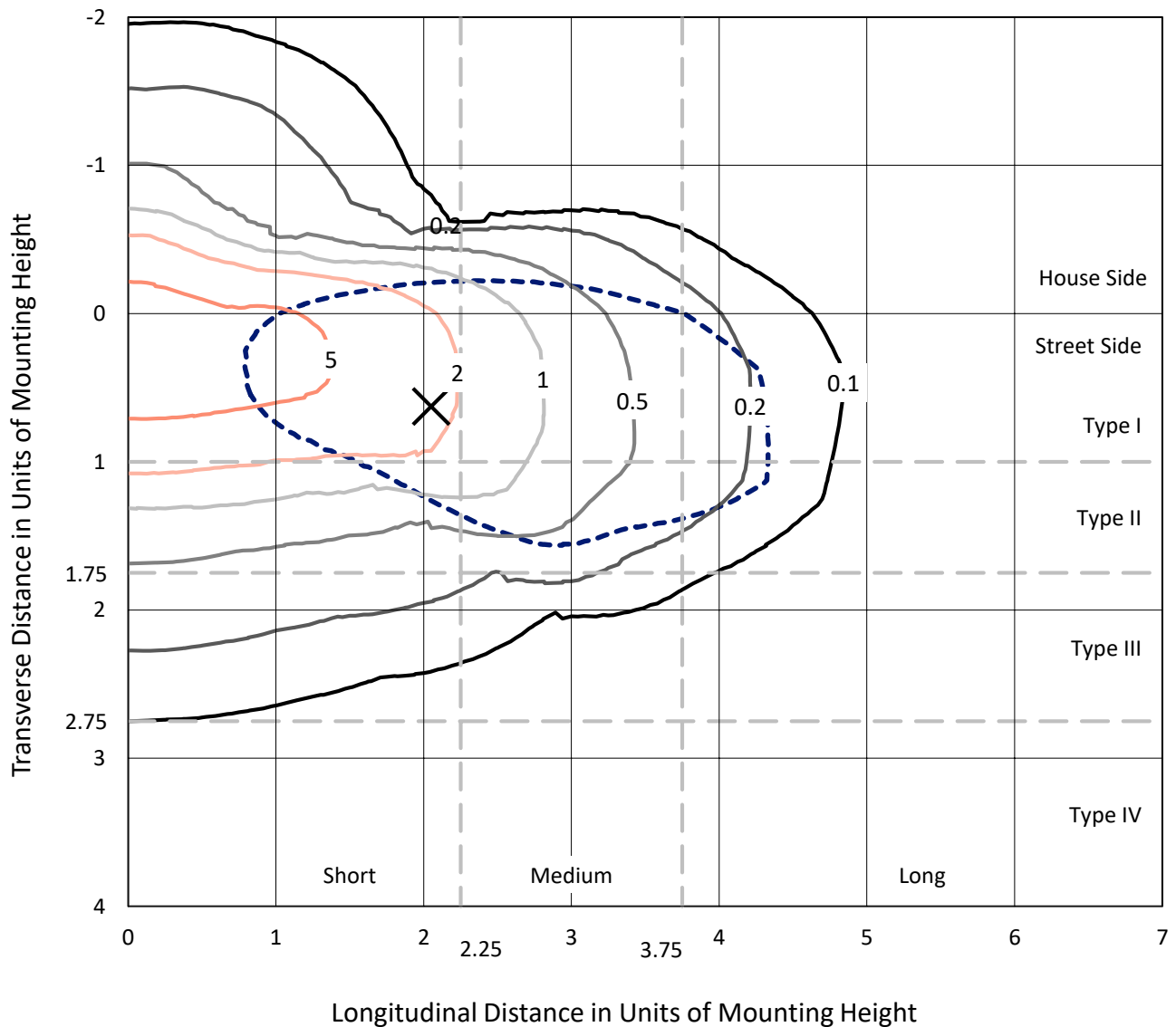
Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

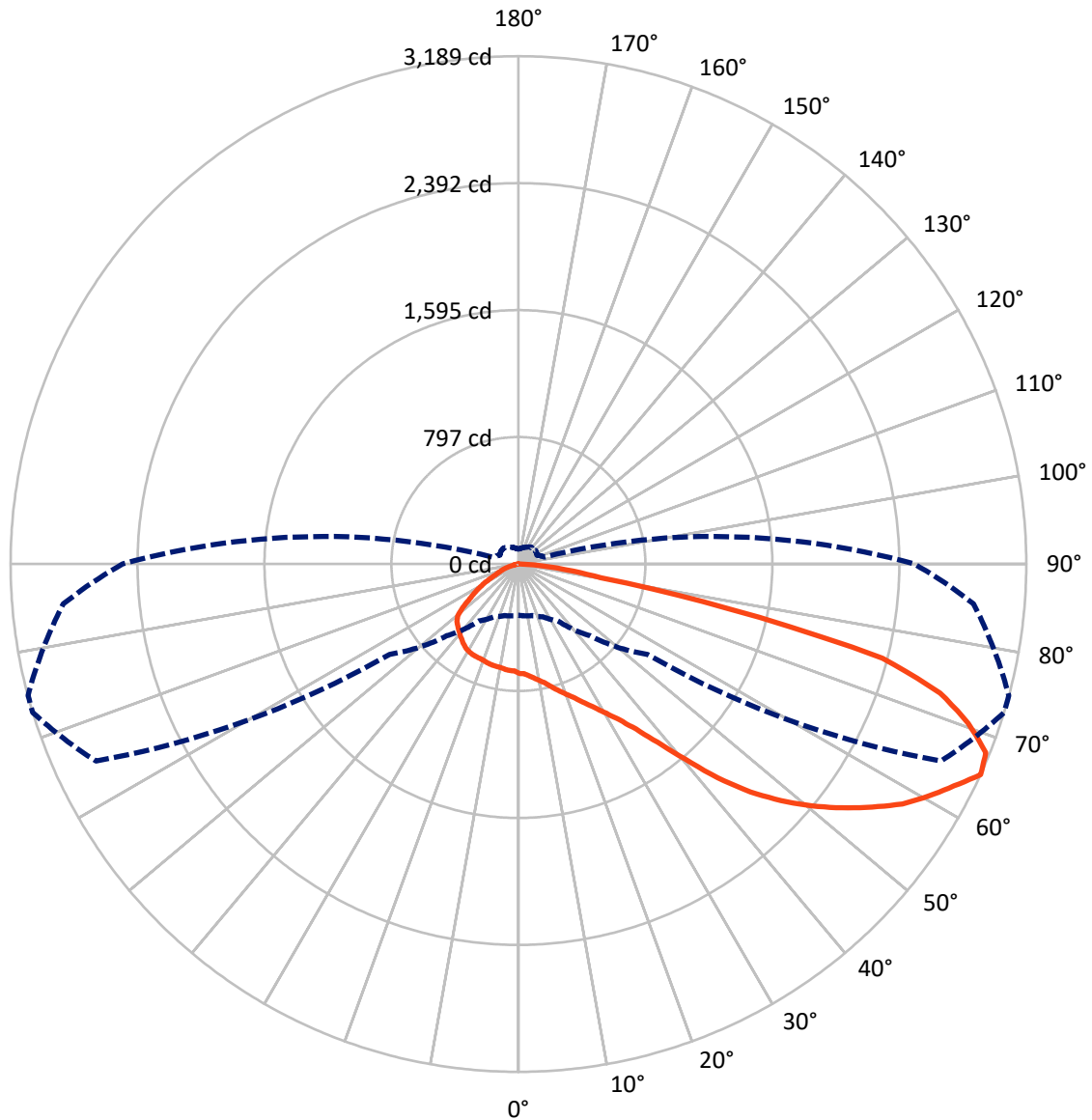


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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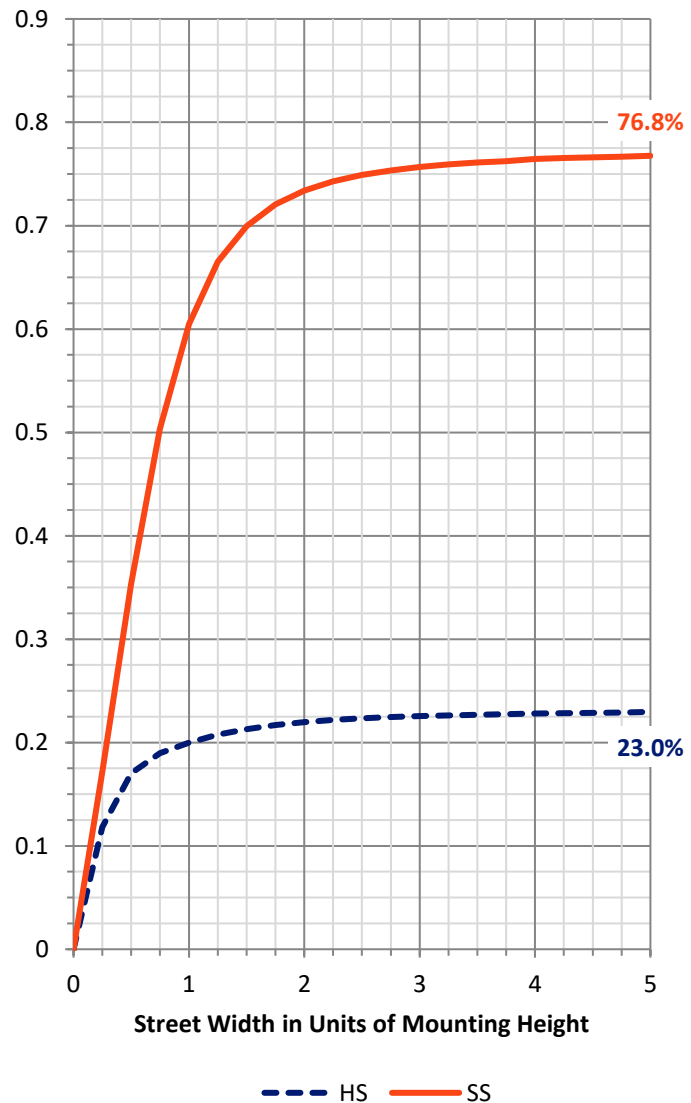
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.9	0.0	897.9
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	2957.1	0.0	2957.1
	% Fixture	76.7	0.0	76.7
Total	Lumens	3855.0	0.0	3855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.7
10°-20°	206.4	5.4
20°-30°	346.6	9.0
30°-40°	474.7	12.3
40°-50°	633.3	16.4
50°-60°	760.7	19.7
60°-70°	809.6	21.0
70°-80°	501.7	13.0
80°-90°	55.6	1.4
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°	3855.0	100.0
0°-180°	3855.0	100.0



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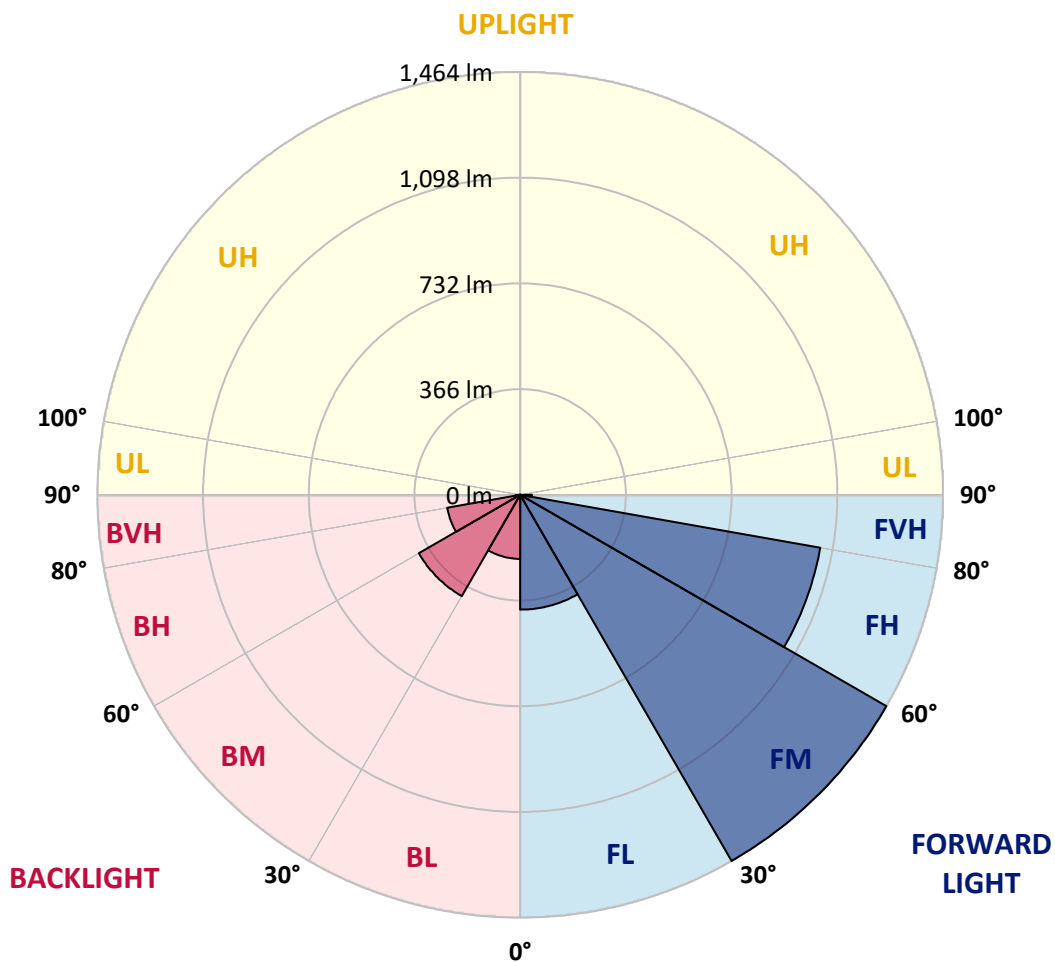
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.6	10.3			
FM	(30°-60°)	1463.9	38.0			
FH	(60°-80°)	1054.8	27.4			G1/1800
FVH	(80°-90°)	40.8	1.1			G1/100
BL	(0°-30°)	221.8	5.8	B1/500		
BM	(30°-60°)	404.8	10.5	B1/1000		
BH	(60°-80°)	256.4	6.7	B1/500		G1/500
BVH	(80°-90°)	14.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	731.3	729.6	730.0	728.4	723.4	718.0	707.6	698.9	689.8	688.1	684.0
5°	767.0	766.1	766.5	764.0	756.6	747.0	732.1	718.0	705.1	701.8	694.4
7.5°	800.1	800.1	799.3	795.2	786.4	774.4	759.9	741.6	724.2	719.7	707.6
10°	847.0	844.9	844.5	837.5	821.7	805.1	788.1	767.4	745.0	738.3	716.8
12.5°	896.0	893.9	894.7	884.8	867.3	840.0	822.1	797.6	770.3	763.2	734.2
15°	944.9	941.2	942.4	933.7	915.9	891.0	861.5	834.1	804.3	796.0	754.9
17.5°	983.5	981.0	983.5	977.3	961.1	937.8	903.8	874.8	839.5	830.4	777.7
20°	1009.6	1010.0	1015.4	1013.8	1002.1	980.6	947.4	916.3	875.2	865.3	803.5
22.5°	1025.0	1026.6	1038.6	1049.0	1045.3	1020.4	993.8	959.0	915.9	905.9	832.1
25°	1029.1	1031.6	1055.2	1082.2	1085.9	1066.4	1043.6	1005.5	966.1	955.3	869.0
27.5°	1038.6	1040.7	1064.4	1095.1	1117.9	1109.2	1093.8	1056.5	1021.2	1009.2	910.9
30°	1027.4	1029.1	1054.8	1095.5	1135.7	1148.1	1144.4	1115.0	1087.6	1073.9	955.7
32.5°	971.4	978.5	1014.6	1083.0	1150.2	1186.3	1196.3	1183.4	1166.0	1150.6	1009.6
35°	917.1	922.1	968.5	1054.0	1149.0	1218.2	1254.3	1273.8	1272.2	1256.8	1096.7
37.5°	872.7	878.5	916.3	1012.1	1137.4	1248.9	1319.5	1388.3	1419.4	1409.9	1247.7
40°	820.0	827.1	861.5	956.5	1110.0	1268.0	1400.8	1516.5	1609.0	1614.4	1440.6
42.5°	754.1	765.3	796.4	885.6	1070.6	1278.8	1481.6	1658.3	1835.5	1838.8	1620.6
45°	695.6	704.7	734.2	810.9	1013.8	1279.6	1555.1	1811.8	2041.2	2038.3	1782.4
47.5°	639.6	651.6	681.1	747.9	935.8	1262.6	1612.3	1966.9	2220.0	2214.6	1945.4
50°	489.5	503.6	606.4	689.0	844.5	1215.8	1652.5	2126.2	2388.0	2381.3	2100.1
52.5°	443.0	445.9	476.6	623.4	776.1	1125.7	1663.3	2292.1	2543.9	2531.1	2237.0
55°	419.8	419.8	434.3	513.1	690.6	985.5	1630.1	2452.3	2694.5	2680.0	2375.1
57.5°	391.1	392.0	412.7	449.6	608.1	851.6	1540.5	2609.9	2843.0	2827.6	2509.1
60°	367.9	369.2	388.2	419.8	525.5	741.6	1364.3	2745.9	2960.0	2943.4	2646.0
62.5°	347.6	348.8	362.1	394.9	480.7	683.2	1180.5	2821.8	3069.5	3062.0	2774.1
65°	321.9	326.0	335.2	365.4	437.2	636.7	989.3	2927.6	3189.3	3188.1	2868.7
67.5°	289.5	293.3	302.0	329.3	395.7	583.2	873.6	3010.6	3165.7	3164.9	2858.3
70°	250.9	250.9	263.8	289.1	345.1	516.0	768.2	2783.7	2997.3	2991.5	2662.6
72.5°	208.2	208.6	221.5	246.8	291.6	428.9	591.1	2373.4	2769.2	2782.8	2360.6
75°	179.2	179.6	190.8	214.0	247.6	341.0	414.4	1268.0	2361.0	2371.8	1986.9
77.5°	107.0	104.9	119.9	137.3	157.2	196.2	255.5	643.3	1348.5	1557.5	1452.6
80°	26.5	27.4	73.4	87.5	96.2	89.2	114.5	258.4	527.6	607.3	829.2
82.5°	14.9	16.6	44.0	54.3	52.7	26.5	39.0	127.3	299.9	337.6	396.5
85°	7.1	7.9	15.3	22.0	17.4	16.6	14.1	54.8	158.5	183.3	194.5
87.5°	3.7	3.7	7.1	8.7	7.9	7.9	5.8	4.1	2.9	3.3	2.5
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°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	683.6	680.7	673.6	666.2	663.7	659.1	659.1	658.3	655.8	652.1	647.1
5°	690.2	684.8	673.6	660.8	650.8	640.4	635.9	631.7	628.0	621.4	616.8
7.5°	698.1	689.0	671.1	651.6	633.4	619.3	611.0	604.4	599.0	594.4	590.3
10°	704.3	689.8	665.3	640.4	615.1	595.2	584.0	576.1	569.9	568.7	564.1
12.5°	717.2	695.6	663.7	633.4	601.9	579.9	563.3	548.8	543.4	537.6	535.5
15°	734.6	707.6	663.7	625.1	588.2	559.1	539.2	526.4	511.4	509.0	502.7
17.5°	752.0	718.8	661.2	611.0	567.9	533.4	507.3	493.2	484.5	470.0	465.8
20°	769.4	731.3	657.4	594.0	542.5	500.7	468.3	449.2	450.5	426.8	427.2
22.5°	786.4	744.1	656.2	577.4	516.0	460.8	422.7	399.4	400.7	383.3	379.1
25°	813.8	762.0	658.3	562.5	485.7	415.2	370.8	349.3	353.0	341.8	335.6
27.5°	847.4	783.1	659.9	544.2	445.9	364.6	319.0	310.7	309.0	297.0	289.9
30°	880.6	803.0	659.1	518.9	399.9	303.6	280.8	273.3	262.6	250.9	246.4
32.5°	918.8	827.1	655.0	492.4	350.1	270.9	248.0	237.3	222.3	209.9	212.4
35°	979.3	862.4	645.4	460.4	289.1	243.5	214.0	198.3	186.7	174.6	177.9
37.5°	1090.1	924.2	633.8	422.7	253.4	212.8	173.4	161.8	156.8	151.8	158.0
40°	1259.7	1051.1	626.3	374.6	225.2	174.6	137.3	141.0	147.3	143.1	149.3
42.5°	1413.6	1163.5	620.9	310.7	189.6	136.1	129.4	138.1	145.2	144.3	141.9
45°	1556.3	1264.7	620.1	236.0	149.3	130.2	129.8	136.1	146.0	145.2	143.5
47.5°	1694.0	1364.7	613.9	186.2	144.8	132.7	132.3	135.6	147.7	146.4	145.2
50°	1828.0	1452.6	583.6	166.7	148.9	139.0	134.8	134.0	143.9	144.3	141.4
52.5°	1948.7	1523.9	513.5	161.4	153.1	144.3	137.7	134.0	136.1	135.6	133.1
55°	2069.4	1589.1	427.2	158.9	154.7	148.1	147.3	136.5	131.9	124.4	127.3
57.5°	2178.1	1653.4	364.2	154.3	151.8	148.1	153.5	136.9	131.5	117.4	115.3
60°	2305.8	1720.6	296.6	148.9	146.8	145.2	144.8	136.9	128.6	112.4	107.0
62.5°	2428.2	1754.2	235.6	140.2	141.9	140.6	136.1	129.4	122.4	110.7	109.1
65°	2486.3	1701.9	169.7	129.0	135.2	137.3	129.8	116.6	106.2	96.2	93.7
67.5°	2424.5	1626.0	134.8	114.5	123.6	131.5	123.6	107.4	95.0	87.5	87.9
70°	2205.9	1519.4	109.9	95.8	106.6	122.4	119.5	102.5	86.7	80.1	80.9
72.5°	1980.6	1321.1	88.8	75.1	79.6	109.9	108.3	97.5	81.7	72.2	72.2
75°	1614.8	943.7	64.7	54.3	54.8	90.0	97.5	81.3	66.8	53.9	52.3
77.5°	1123.3	611.8	33.2	31.5	36.1	50.2	75.1	70.1	64.3	62.6	59.7
80°	654.1	312.3	21.2	14.5	18.7	33.6	58.9	61.4	60.6	41.1	38.2
82.5°	309.0	90.0	12.4	9.1	10.8	15.8	34.8	53.1	50.2	29.5	28.2
85°	124.4	10.8	6.6	5.4	6.2	9.1	16.6	42.7	34.8	27.4	27.4
87.5°	2.5	2.5	2.5	2.5	2.9	4.1	8.3	23.2	18.7	15.8	15.8
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)