

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: P129301

Luminaire Tested: **VERD-A018-E-U-T2-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129301
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-A018-E-U-T2-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K LED AT 80% STANDARD LUMENS AND TYPE II OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4936 lumens
Efficiency: N/A
Efficacy: 96.8 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

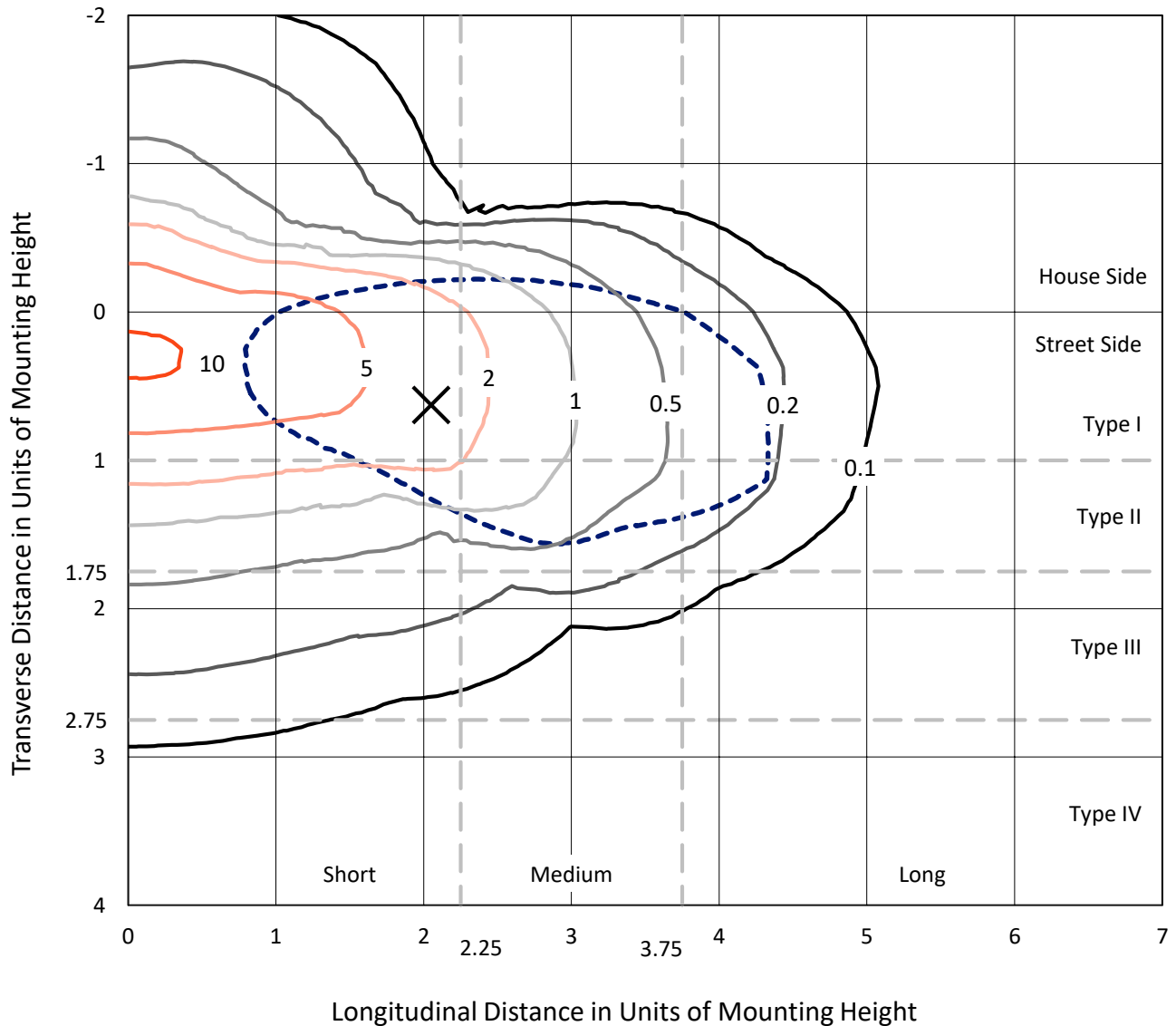
Input Watts (W): 51
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

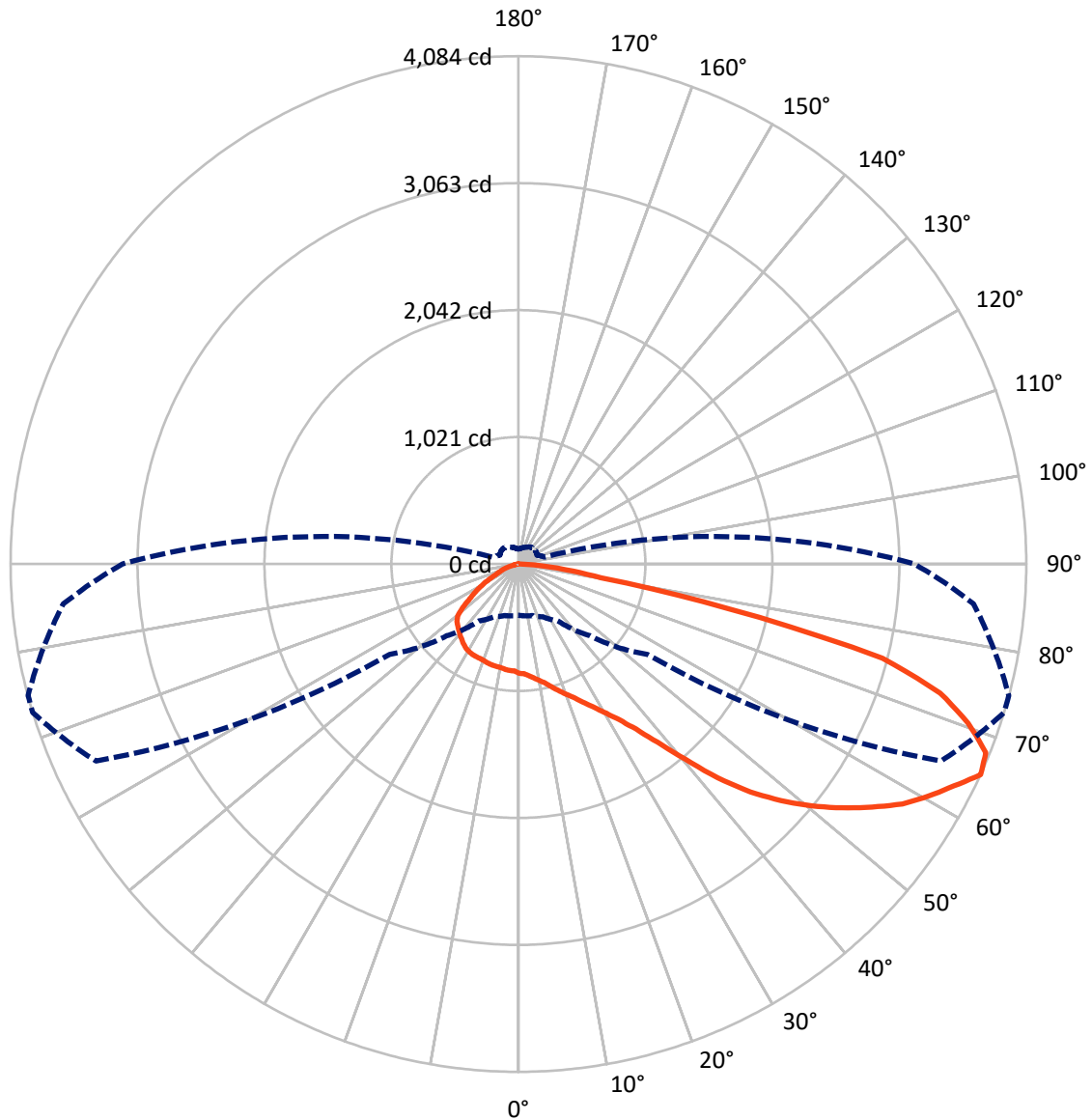


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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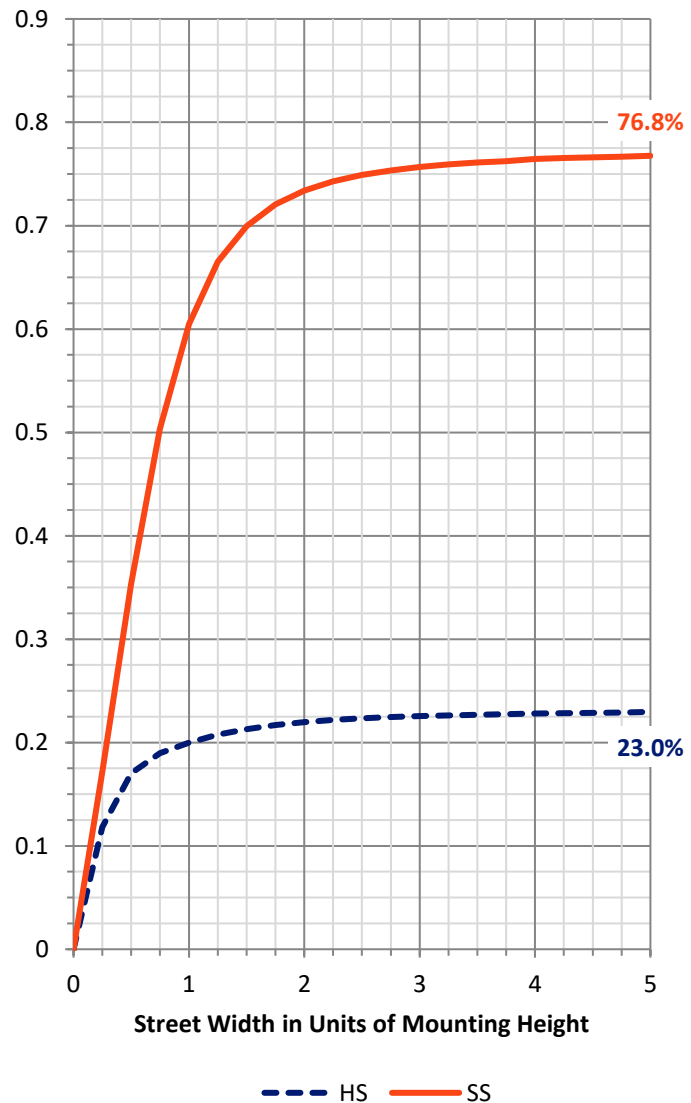
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1149.7	0.0	1149.7
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	3786.3	0.0	3786.3
	% Fixture	76.7	0.0	76.7
Total	Lumens	4936.0	0.0	4936.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.7
10°-20°	264.3	5.4
20°-30°	443.7	9.0
30°-40°	607.8	12.3
40°-50°	810.9	16.4
50°-60°	974.1	19.7
60°-70°	1036.6	21.0
70°-80°	642.3	13.0
80°-90°	71.2	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°	4936.0	100.0
0°-180°	4936.0	100.0



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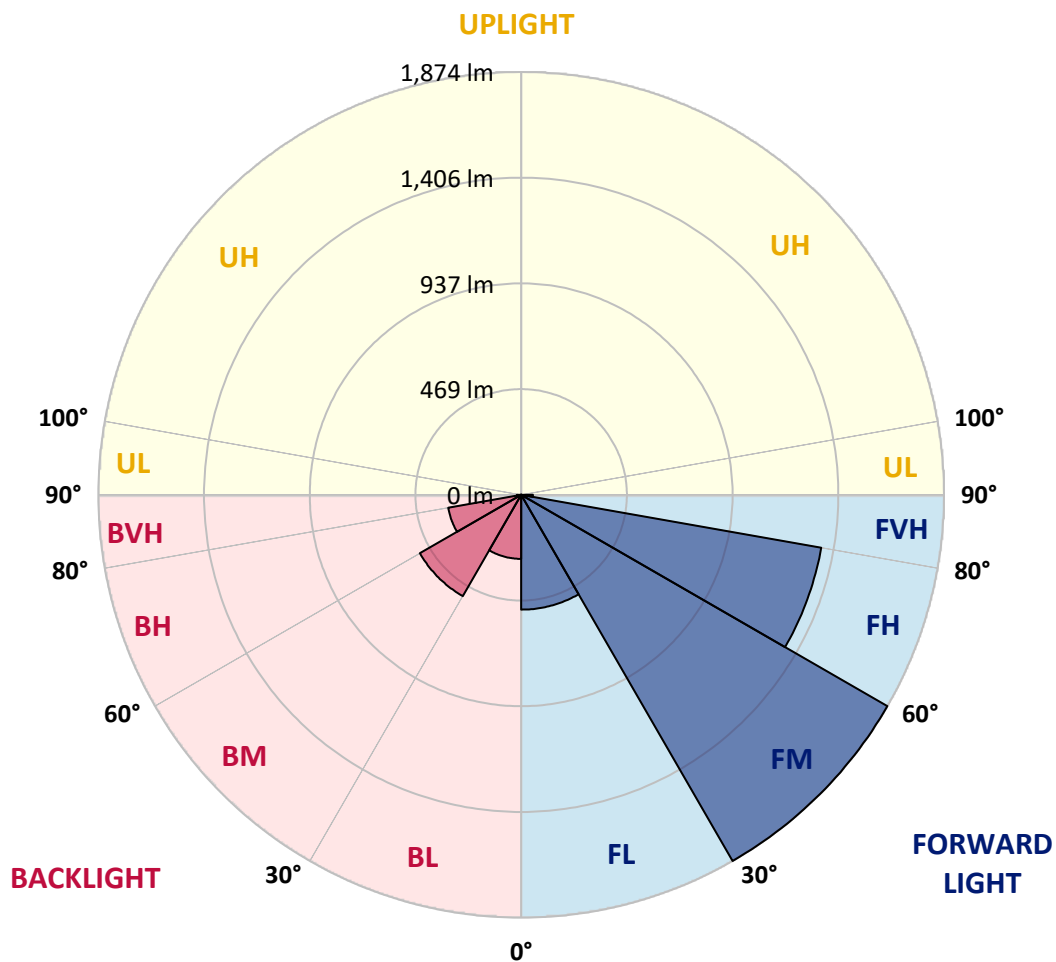
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.1	10.3			
FM	(30°-60°)	1874.4	38.0			
FH	(60°-80°)	1350.6	27.4			G1/1800
FVH	(80°-90°)	52.2	1.1			G1/100
BL	(0°-30°)	284.0	5.8	B1/500		
BM	(30°-60°)	518.3	10.5	B1/1000		
BH	(60°-80°)	328.3	6.7	B1/500		G1/500
BVH	(80°-90°)	19.0	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°	879.5	879.5	879.5	879.5	879.5	879.5	879.5	879.5	879.5	879.5	879.5
2.5°	936.3	934.2	934.7	932.6	926.3	919.3	906.1	894.9	883.2	881.1	875.8
5°	982.0	981.0	981.5	978.3	968.7	956.5	937.4	919.3	902.9	898.6	889.1
7.5°	1024.5	1024.5	1023.4	1018.1	1007.0	991.6	973.0	949.6	927.3	921.5	906.1
10°	1084.5	1081.9	1081.3	1072.3	1052.1	1030.9	1009.1	982.5	953.9	945.4	917.8
12.5°	1147.2	1144.5	1145.6	1132.9	1110.5	1075.5	1052.7	1021.3	986.3	977.2	940.1
15°	1209.9	1205.1	1206.7	1195.5	1172.7	1140.8	1103.1	1068.1	1029.8	1019.2	966.6
17.5°	1259.3	1256.1	1259.3	1251.3	1230.6	1200.8	1157.3	1120.1	1075.0	1063.3	995.8
20°	1292.7	1293.2	1300.2	1298.0	1283.2	1255.5	1213.0	1173.2	1120.6	1107.9	1028.8
22.5°	1312.4	1314.5	1329.9	1343.2	1338.4	1306.5	1272.5	1227.9	1172.7	1159.9	1065.4
25°	1317.7	1320.9	1351.1	1385.7	1390.4	1365.5	1336.3	1287.4	1236.9	1223.1	1112.7
27.5°	1329.9	1332.5	1362.8	1402.1	1431.3	1420.2	1400.5	1352.7	1307.6	1292.2	1166.3
30°	1315.6	1317.7	1350.6	1402.7	1454.2	1470.1	1465.3	1427.6	1392.6	1375.0	1223.7
32.5°	1243.9	1252.9	1299.1	1386.7	1472.8	1519.0	1531.7	1515.2	1492.9	1473.3	1292.7
35°	1174.3	1180.7	1240.1	1349.5	1471.2	1559.9	1606.1	1631.0	1628.9	1609.3	1404.2
37.5°	1117.4	1124.9	1173.2	1295.9	1456.3	1599.2	1689.5	1777.6	1817.4	1805.2	1597.6
40°	1050.0	1059.0	1103.1	1224.7	1421.2	1623.6	1793.5	1941.7	2060.2	2067.1	1844.5
42.5°	965.6	979.9	1019.7	1133.9	1370.8	1637.4	1897.1	2123.4	2350.1	2354.4	2075.0
45°	890.7	902.4	940.1	1038.3	1298.0	1638.5	1991.1	2319.9	2613.6	2609.9	2282.2
47.5°	819.0	834.4	872.1	957.6	1198.2	1616.7	2064.4	2518.5	2842.5	2835.6	2490.9
50°	626.7	644.8	776.5	882.2	1081.3	1556.7	2115.9	2722.5	3057.6	3049.1	2689.0
52.5°	567.2	570.9	610.2	798.3	993.7	1441.4	2129.7	2934.9	3257.3	3240.8	2864.3
55°	537.5	537.5	556.1	657.0	884.3	1261.9	2087.3	3139.9	3450.1	3431.5	3041.1
57.5°	500.8	501.9	528.5	575.7	778.6	1090.4	1972.5	3341.7	3640.2	3620.6	3212.7
60°	471.1	472.7	497.1	537.5	672.9	949.6	1746.8	3515.9	3790.0	3768.7	3387.9
62.5°	445.1	446.7	463.7	505.6	615.6	874.7	1511.5	3613.1	3930.2	3920.6	3552.0
65°	412.1	417.5	429.1	467.9	559.8	815.2	1266.7	3748.6	4083.7	4082.1	3673.1
67.5°	370.7	375.5	386.6	421.7	506.7	746.7	1118.5	3854.8	4053.4	4052.3	3659.9
70°	321.3	321.3	337.8	370.2	441.9	660.7	983.6	3564.3	3837.8	3830.3	3409.2
72.5°	266.6	267.1	283.6	316.0	373.4	549.2	756.8	3039.0	3545.7	3563.2	3022.5
75°	229.4	230.0	244.3	274.1	317.1	436.6	530.6	1623.6	3023.1	3036.9	2544.0
77.5°	137.0	134.4	153.5	175.8	201.3	251.2	327.2	823.7	1726.6	1994.3	1859.9
80°	34.0	35.1	94.0	112.1	123.2	114.2	146.6	330.9	675.6	777.5	1061.7
82.5°	19.1	21.2	56.3	69.6	67.5	34.0	49.9	163.0	384.0	432.3	507.7
85°	9.0	10.1	19.7	28.1	22.3	21.2	18.1	70.1	202.9	234.7	249.1
87.5°	4.8	4.8	9.0	11.2	10.1	10.1	7.4	5.3	3.7	4.2	3.2
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°	879.5	879.5	879.5	879.5	879.5	879.5	879.5	879.5	879.5	879.5	879.5
2.5°	875.3	871.5	862.5	853.0	849.8	843.9	843.9	842.9	839.7	834.9	828.5
5°	883.8	876.9	862.5	846.1	833.3	820.0	814.2	808.9	804.1	795.6	789.8
7.5°	893.9	882.2	859.3	834.4	811.0	792.9	782.3	773.8	766.9	761.1	755.8
10°	901.8	883.2	851.9	820.0	787.6	762.1	747.8	737.7	729.7	728.1	722.3
12.5°	918.3	890.7	849.8	811.0	770.6	742.5	721.2	702.7	695.8	688.3	685.7
15°	940.6	906.1	849.8	800.4	753.1	715.9	690.4	674.0	654.9	651.7	643.7
17.5°	962.9	920.4	846.6	782.3	727.1	683.0	649.5	631.5	620.3	601.7	596.4
20°	985.2	936.3	841.8	760.5	694.7	641.0	599.6	575.2	576.8	546.5	547.0
22.5°	1007.0	952.8	840.2	739.3	660.7	590.1	541.2	511.5	513.0	490.7	485.4
25°	1042.0	975.6	842.9	720.2	621.9	531.6	474.8	447.2	452.0	437.6	429.7
27.5°	1085.1	1002.7	845.0	696.8	570.9	466.8	408.4	397.8	395.7	380.3	371.2
30°	1127.5	1028.2	843.9	664.4	512.0	388.8	359.6	350.0	336.2	321.3	315.5
32.5°	1176.4	1059.0	838.6	630.4	448.3	346.8	317.6	303.8	284.7	268.7	271.9
35°	1253.9	1104.2	826.4	589.5	370.2	311.8	274.1	253.9	239.0	223.6	227.8
37.5°	1395.7	1183.3	811.5	541.2	324.5	272.5	222.0	207.1	200.8	194.4	202.4
40°	1613.0	1345.8	802.0	479.6	288.4	223.6	175.8	180.6	188.5	183.2	191.2
42.5°	1810.0	1489.8	795.1	397.8	242.7	174.2	165.7	176.9	185.9	184.8	181.6
45°	1992.7	1619.3	794.0	302.2	191.2	166.8	166.2	174.2	186.9	185.9	183.8
47.5°	2169.0	1747.3	786.0	238.5	185.4	170.0	169.4	173.7	189.1	187.5	185.9
50°	2340.6	1859.9	747.3	213.5	190.7	177.9	172.6	171.5	184.3	184.8	181.1
52.5°	2495.1	1951.3	657.5	206.6	196.0	184.8	176.3	171.5	174.2	173.7	170.5
55°	2649.7	2034.7	547.0	203.4	198.1	189.6	188.5	174.7	168.9	159.3	163.0
57.5°	2788.8	2117.0	466.3	197.6	194.4	189.6	196.5	175.3	168.4	150.3	147.6
60°	2952.4	2203.0	379.7	190.7	188.0	185.9	185.4	175.3	164.6	143.9	137.0
62.5°	3109.1	2246.1	301.7	179.5	181.6	180.0	174.2	165.7	156.7	141.8	139.7
65°	3183.5	2179.1	217.2	165.2	173.1	175.8	166.2	149.2	136.0	123.2	120.0
67.5°	3104.3	2081.9	172.6	146.6	158.3	168.4	158.3	137.6	121.6	112.1	112.6
70°	2824.4	1945.4	140.7	122.7	136.5	156.7	153.0	131.2	111.0	102.5	103.6
72.5°	2536.0	1691.6	113.7	96.1	102.0	140.7	138.6	124.8	104.6	92.4	92.4
75°	2067.6	1208.3	82.9	69.6	70.1	115.3	124.8	104.1	85.5	69.0	66.9
77.5°	1438.2	783.4	42.5	40.4	46.2	64.3	96.1	89.8	82.3	80.2	76.5
80°	837.6	399.9	27.1	18.6	23.9	43.0	75.4	78.6	77.5	52.6	48.9
82.5°	395.7	115.3	15.9	11.7	13.8	20.2	44.6	68.0	64.3	37.7	36.1
85°	159.3	13.8	8.5	6.9	8.0	11.7	21.2	54.7	44.6	35.1	35.1
87.5°	3.2	3.2	3.2	3.2	3.7	5.3	10.6	29.7	23.9	20.2	20.2
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)