

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: P129296

Luminaire Tested: **VERD-A018-E-U-T2-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129296
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-T2-7030-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K 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: 4831 lumens
Efficiency: N/A
Efficacy: 94.7 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

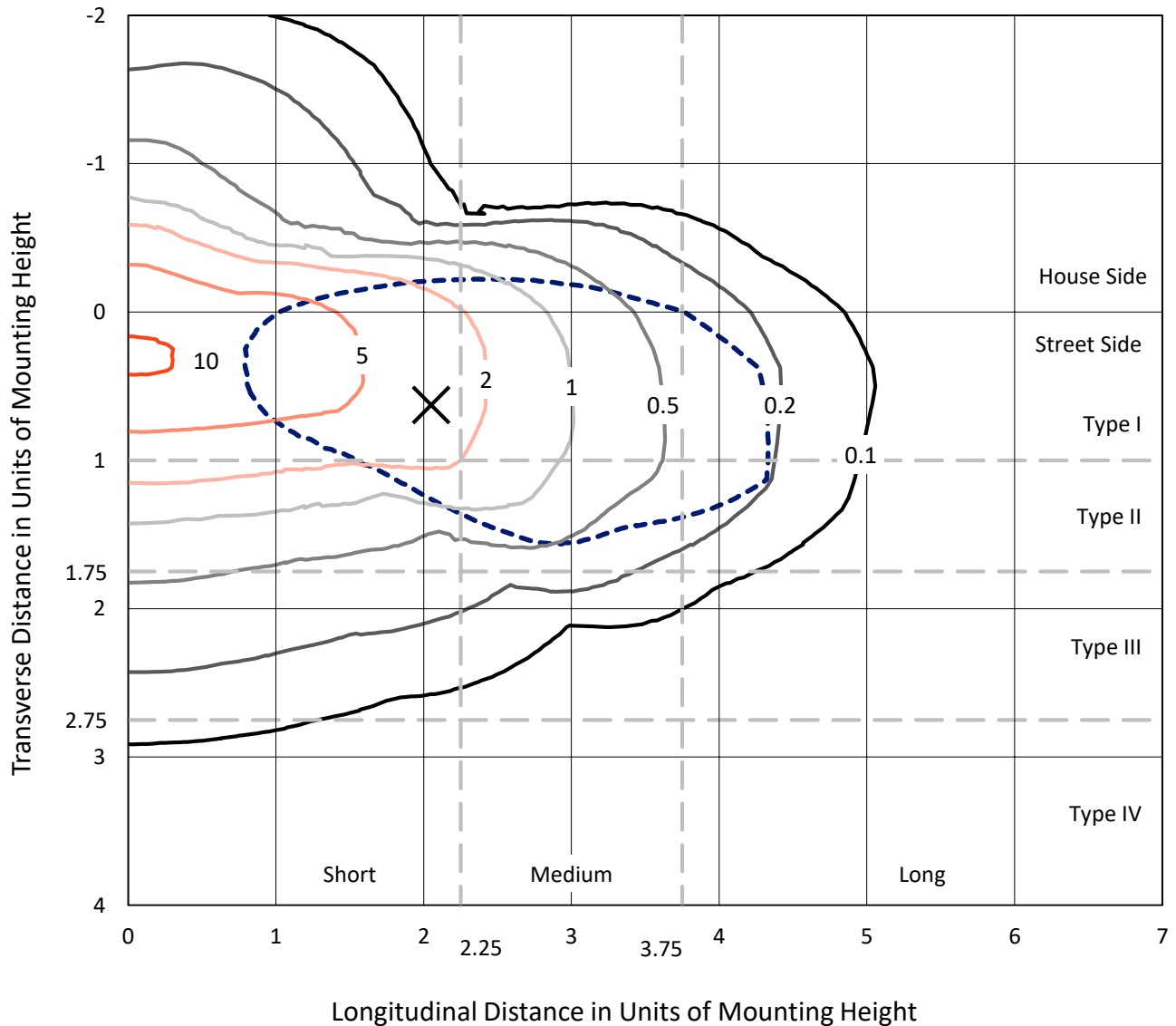
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

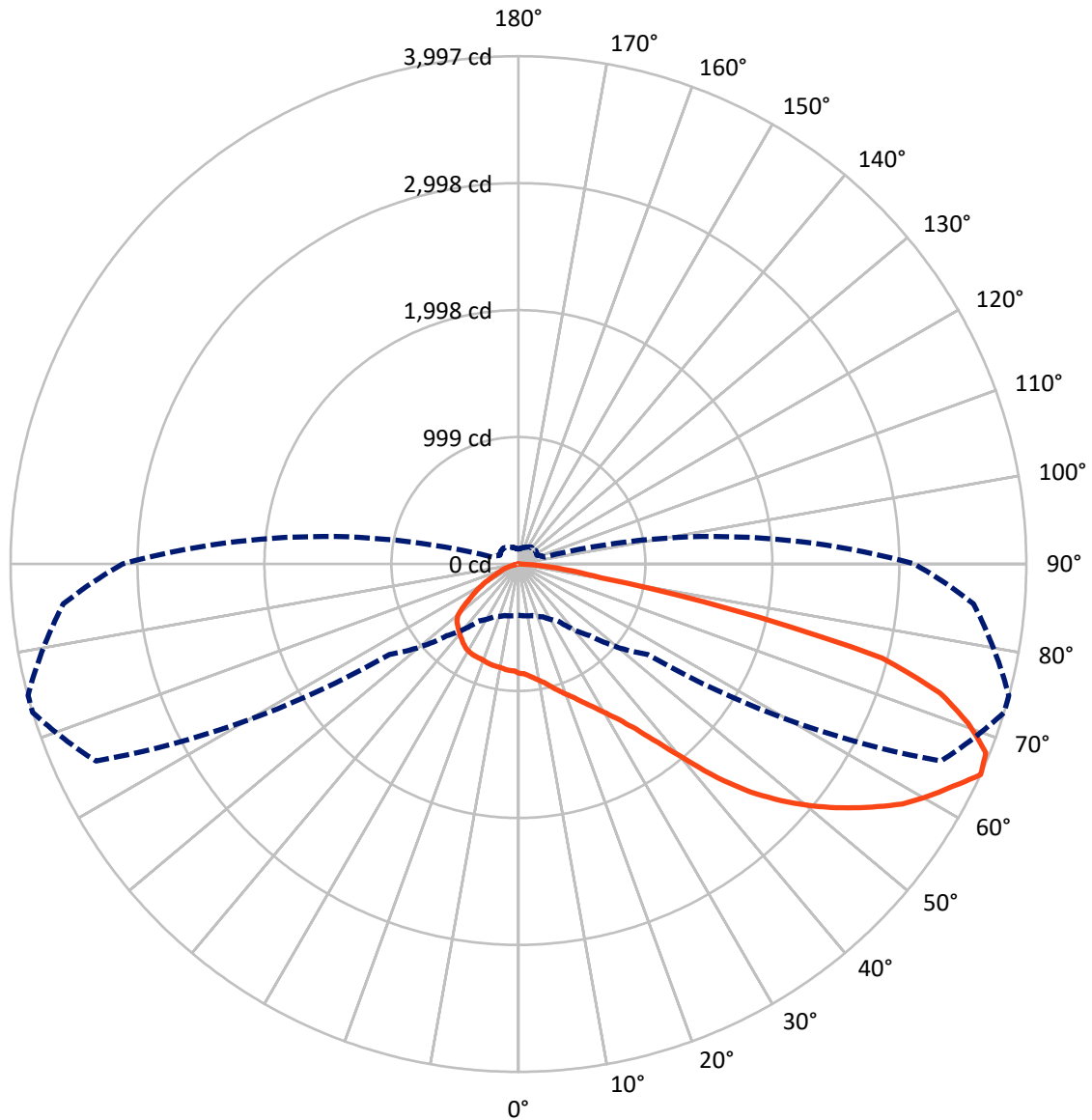
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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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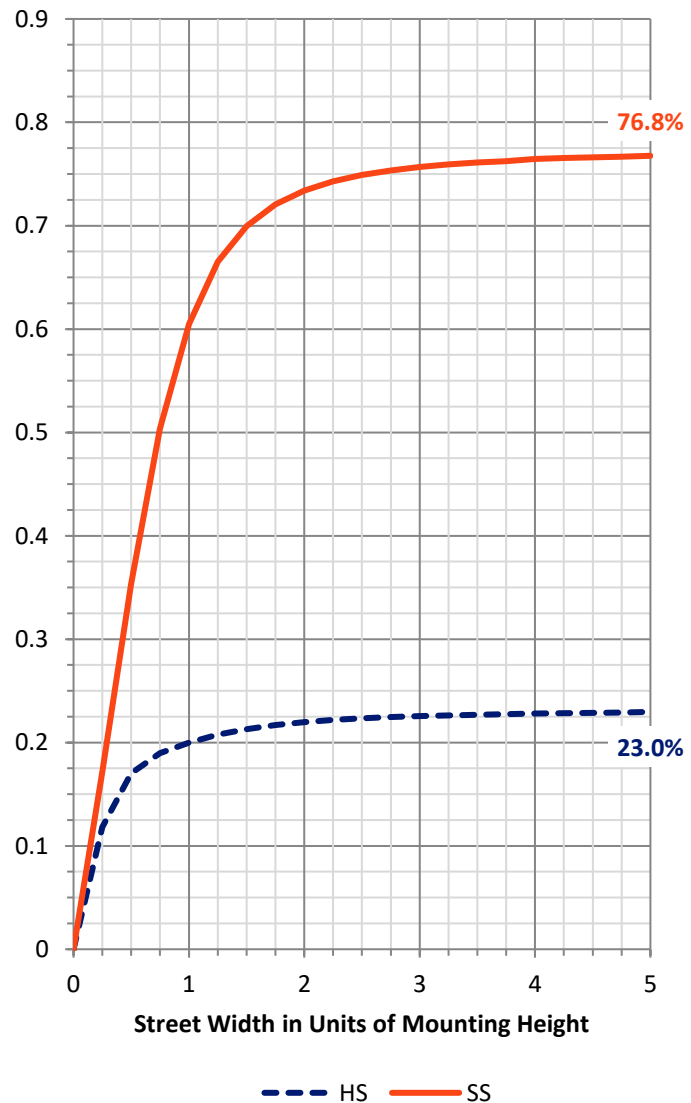
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1125.2	0.0	1125.2
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	3705.8	0.0	3705.8
	% Fixture	76.7	0.0	76.7
Total	Lumens	4831.0	0.0	4831.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.7
10°-20°	258.6	5.4
20°-30°	434.3	9.0
30°-40°	594.9	12.3
40°-50°	793.7	16.4
50°-60°	953.3	19.7
60°-70°	1014.5	21.0
70°-80°	628.7	13.0
80°-90°	69.7	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°	4831.0	100.0
0°-180°	4831.0	100.0



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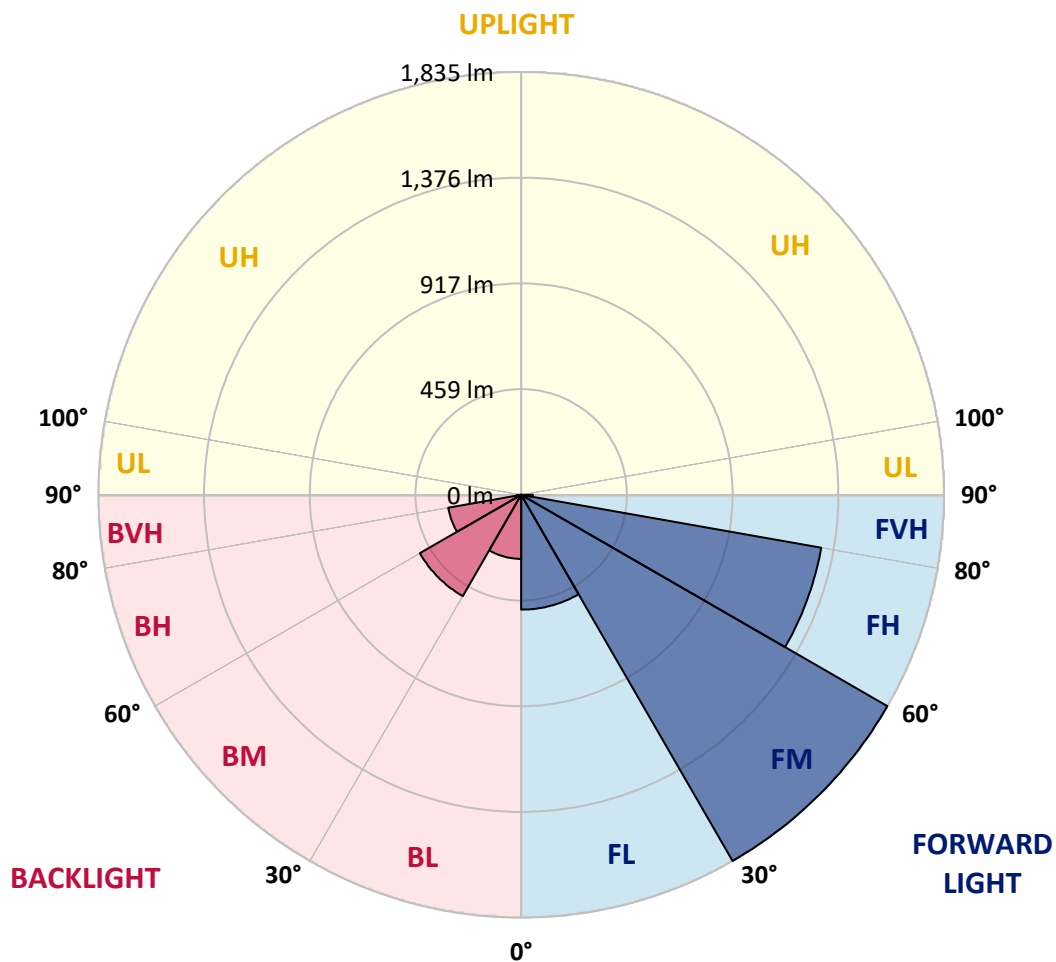
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.2	10.3			
FM (30°-60°)	1834.6	38.0			
FH (60°-80°)	1321.9	27.4			G1/1800
FVH (80°-90°)	51.1	1.1			G1/100
BL (0°-30°)	278.0	5.8	B1/500		
BM (30°-60°)	507.3	10.5	B1/1000		
BH (60°-80°)	321.3	6.7	B1/500		G1/500
BVH (80°-90°)	18.6	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°	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8
2.5°	916.4	914.3	914.9	912.8	906.5	899.8	886.8	875.9	864.4	862.4	857.2
5°	961.1	960.1	960.6	957.5	948.1	936.2	917.5	899.8	883.7	879.5	870.2
7.5°	1002.7	1002.7	1001.7	996.5	985.6	970.5	952.3	929.4	907.6	901.9	886.8
10°	1061.5	1058.9	1058.3	1049.5	1029.7	1008.9	987.6	961.6	933.6	925.3	898.2
12.5°	1122.8	1120.2	1121.2	1108.8	1086.9	1052.6	1030.3	999.6	965.3	956.4	920.1
15°	1184.1	1179.4	1181.0	1170.1	1147.7	1116.6	1079.6	1045.3	1007.9	997.5	946.1
17.5°	1232.5	1229.3	1232.5	1224.7	1204.4	1175.3	1132.7	1096.3	1052.1	1040.7	974.6
20°	1265.2	1265.7	1272.5	1270.4	1255.9	1228.8	1187.2	1148.3	1096.8	1084.3	1006.9
22.5°	1284.4	1286.5	1301.6	1314.6	1309.9	1278.7	1245.5	1201.8	1147.7	1135.3	1042.7
25°	1289.6	1292.8	1322.4	1356.2	1360.9	1336.4	1307.8	1260.0	1210.6	1197.1	1089.0
27.5°	1301.6	1304.2	1333.8	1372.3	1400.9	1390.0	1370.7	1324.0	1279.8	1264.7	1141.5
30°	1287.6	1289.6	1321.9	1372.8	1423.2	1438.8	1434.2	1397.2	1362.9	1345.8	1197.6
32.5°	1217.4	1226.2	1271.5	1357.2	1441.4	1486.7	1499.1	1483.0	1461.2	1442.0	1265.2
35°	1149.3	1155.5	1213.8	1320.8	1439.9	1526.7	1571.9	1596.3	1594.3	1575.0	1374.4
37.5°	1093.7	1101.0	1148.3	1268.3	1425.3	1565.1	1653.5	1739.8	1778.8	1766.8	1563.6
40°	1027.7	1036.5	1079.6	1198.7	1391.0	1589.1	1755.4	1900.4	2016.3	2023.1	1805.3
42.5°	945.0	959.0	998.0	1109.8	1341.6	1602.6	1856.8	2078.2	2300.2	2304.3	2030.9
45°	871.7	883.2	920.1	1016.2	1270.4	1603.6	1948.8	2270.5	2558.0	2554.3	2233.6
47.5°	801.5	816.6	853.5	937.2	1172.7	1582.3	2020.5	2464.9	2782.0	2775.3	2437.9
50°	613.4	631.0	760.0	863.4	1058.3	1523.6	2070.9	2664.5	2992.5	2984.2	2631.8
52.5°	555.2	558.8	597.3	781.3	972.6	1410.8	2084.4	2872.5	3188.0	3171.9	2803.3
55°	526.0	526.0	544.2	643.0	865.5	1235.1	2042.9	3073.1	3376.7	3358.5	2976.4
57.5°	490.2	491.2	517.2	563.5	762.0	1067.2	1930.6	3270.6	3562.8	3543.5	3144.3
60°	461.1	462.6	486.5	526.0	658.6	929.4	1709.7	3441.1	3709.4	3688.6	3315.9
62.5°	435.6	437.2	453.8	494.9	602.5	856.1	1479.4	3536.3	3846.6	3837.2	3476.5
65°	403.4	408.6	420.0	458.0	547.9	797.9	1239.7	3668.8	3996.8	3995.3	3595.0
67.5°	362.8	367.5	378.4	412.7	495.9	730.9	1094.7	3772.8	3967.2	3966.1	3582.0
70°	314.5	314.5	330.6	362.3	432.5	646.6	962.7	3488.4	3756.1	3748.9	3336.7
72.5°	260.9	261.5	277.6	309.3	365.4	537.5	740.7	2974.3	3470.2	3487.4	2958.2
75°	224.6	225.1	239.1	268.2	310.3	427.3	519.3	1589.1	2958.8	2972.3	2489.9
77.5°	134.1	131.5	150.2	172.1	197.0	245.9	320.2	806.2	1689.9	1951.9	1820.4
80°	33.3	34.3	92.0	109.7	120.6	111.8	143.5	323.8	661.2	761.0	1039.1
82.5°	18.7	20.8	55.1	68.1	66.0	33.3	48.9	159.6	375.8	423.1	496.9
85°	8.8	9.9	19.2	27.5	21.8	20.8	17.7	68.6	198.6	229.8	243.8
87.5°	4.7	4.7	8.8	10.9	9.9	9.9	7.3	5.2	3.6	4.2	3.1
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°	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8
2.5°	856.6	853.0	844.2	834.8	831.7	826.0	826.0	824.9	821.8	817.1	810.9
5°	865.0	858.2	844.2	828.1	815.6	802.6	796.9	791.7	787.0	778.7	773.0
7.5°	874.8	863.4	841.1	816.6	793.7	776.1	765.7	757.4	750.6	744.9	739.7
10°	882.6	864.4	833.8	802.6	770.9	745.9	731.9	722.0	714.2	712.7	706.9
12.5°	898.8	871.7	831.7	793.7	754.2	726.7	705.9	687.7	681.0	673.7	671.1
15°	920.6	886.8	831.7	783.4	737.1	700.7	675.8	659.6	640.9	637.8	630.0
17.5°	942.4	900.8	828.6	765.7	711.6	668.5	635.7	618.1	607.1	588.9	583.7
20°	964.2	916.4	823.9	744.4	679.9	627.4	586.9	563.0	564.5	534.9	535.4
22.5°	985.6	932.5	822.3	723.6	646.6	577.5	529.7	500.6	502.1	480.3	475.1
25°	1019.9	954.9	824.9	704.9	608.7	520.3	464.7	437.7	442.4	428.3	420.5
27.5°	1062.0	981.4	827.0	682.0	558.8	456.9	399.7	389.3	387.3	372.2	363.3
30°	1103.6	1006.4	826.0	650.3	501.1	380.5	351.9	342.6	329.0	314.5	308.8
32.5°	1151.4	1036.5	820.8	617.0	438.7	339.4	310.8	297.3	278.6	263.0	266.1
35°	1227.3	1080.7	808.8	577.0	362.3	305.1	268.2	248.5	233.9	218.8	223.0
37.5°	1366.1	1158.1	794.3	529.7	317.6	266.7	217.3	202.7	196.5	190.3	198.0
40°	1578.7	1317.2	784.9	469.4	282.3	218.8	172.1	176.7	184.5	179.3	187.1
42.5°	1771.5	1458.1	778.2	389.3	237.6	170.5	162.2	173.1	181.9	180.9	177.8
45°	1950.3	1584.9	777.1	295.8	187.1	163.2	162.7	170.5	183.0	181.9	179.9
47.5°	2122.9	1710.2	769.3	233.4	181.4	166.3	165.8	170.0	185.1	183.5	181.9
50°	2290.8	1820.4	731.4	209.0	186.6	174.1	168.9	167.9	180.4	180.9	177.3
52.5°	2442.1	1909.8	643.5	202.2	191.8	180.9	172.6	167.9	170.5	170.0	166.9
55°	2593.3	1991.4	535.4	199.1	193.9	185.6	184.5	171.0	165.3	155.9	159.6
57.5°	2729.5	2072.0	456.4	193.4	190.3	185.6	192.3	171.5	164.8	147.1	144.5
60°	2889.6	2156.2	371.7	186.6	184.0	181.9	181.4	171.5	161.1	140.9	134.1
62.5°	3043.0	2198.3	295.3	175.7	177.8	176.2	170.5	162.2	153.3	138.8	136.7
65°	3115.7	2132.8	212.6	161.7	169.5	172.1	162.7	146.1	133.1	120.6	117.5
67.5°	3038.3	2037.7	168.9	143.5	154.9	164.8	154.9	134.6	119.0	109.7	110.2
70°	2764.3	1904.1	137.7	120.1	133.6	153.3	149.7	128.4	108.6	100.3	101.4
72.5°	2482.1	1655.6	111.2	94.1	99.8	137.7	135.7	122.2	102.4	90.4	90.4
75°	2023.6	1182.6	81.1	68.1	68.6	112.8	122.2	101.9	83.7	67.6	65.5
77.5°	1407.6	766.7	41.6	39.5	45.2	62.9	94.1	87.8	80.6	78.5	74.9
80°	819.7	391.4	26.5	18.2	23.4	42.1	73.8	76.9	75.9	51.5	47.8
82.5°	387.3	112.8	15.6	11.4	13.5	19.8	43.7	66.5	62.9	36.9	35.3
85°	155.9	13.5	8.3	6.8	7.8	11.4	20.8	53.5	43.7	34.3	34.3
87.5°	3.1	3.1	3.1	3.1	3.6	5.2	10.4	29.1	23.4	19.8	19.8
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)