

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: P234026

Luminaire Tested: **VERD-C013-D-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
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-T3-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 560mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-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

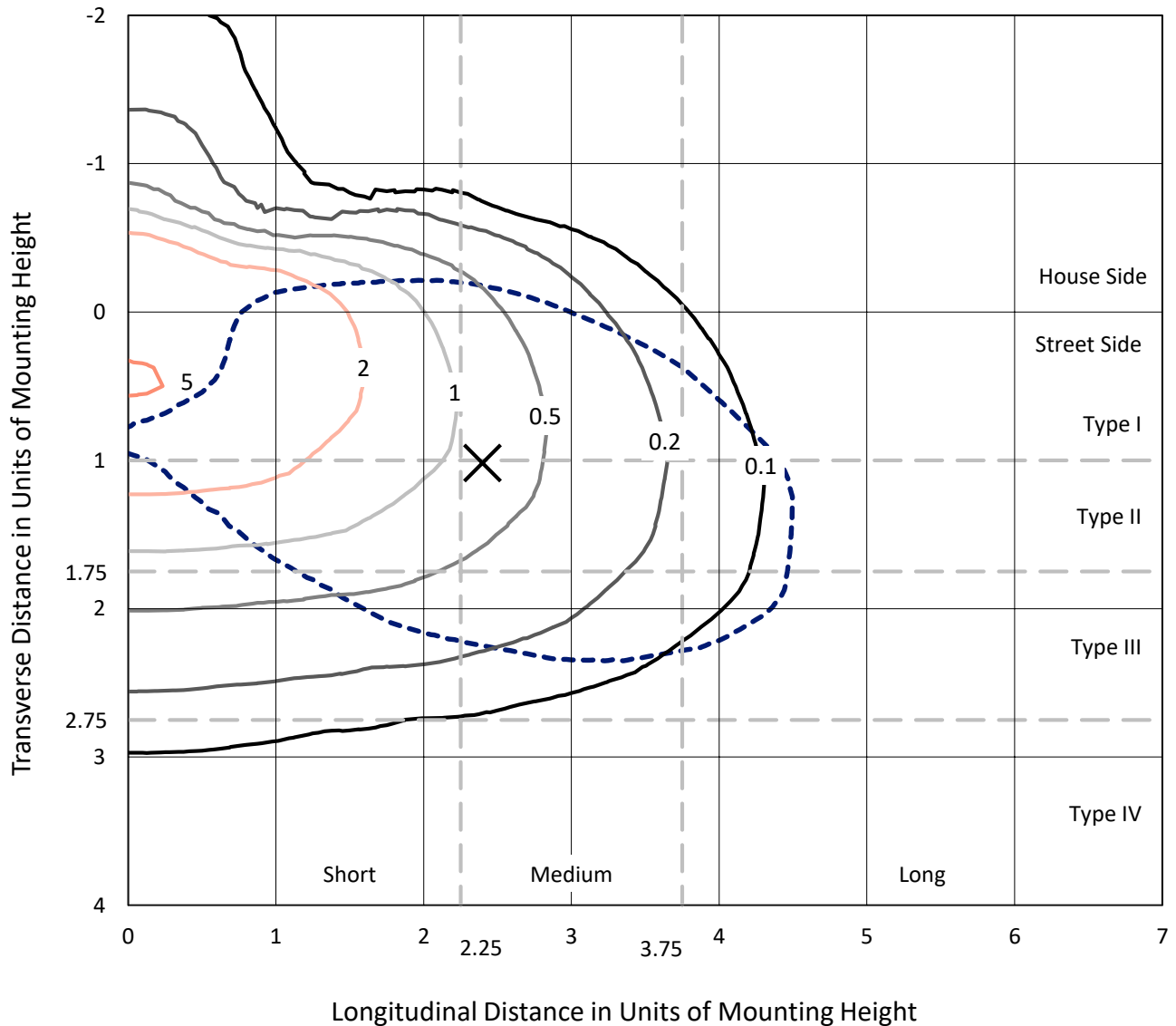


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

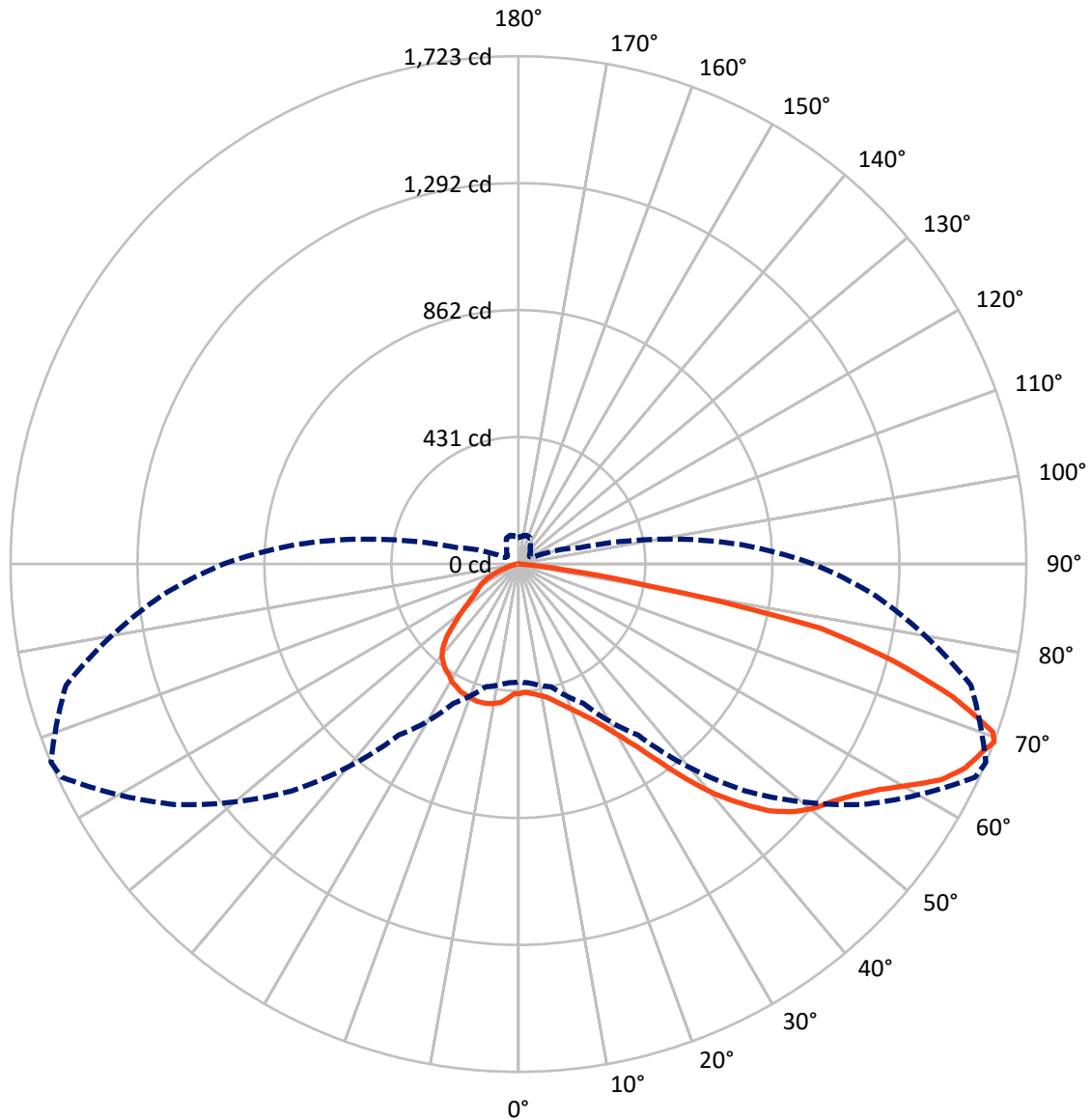


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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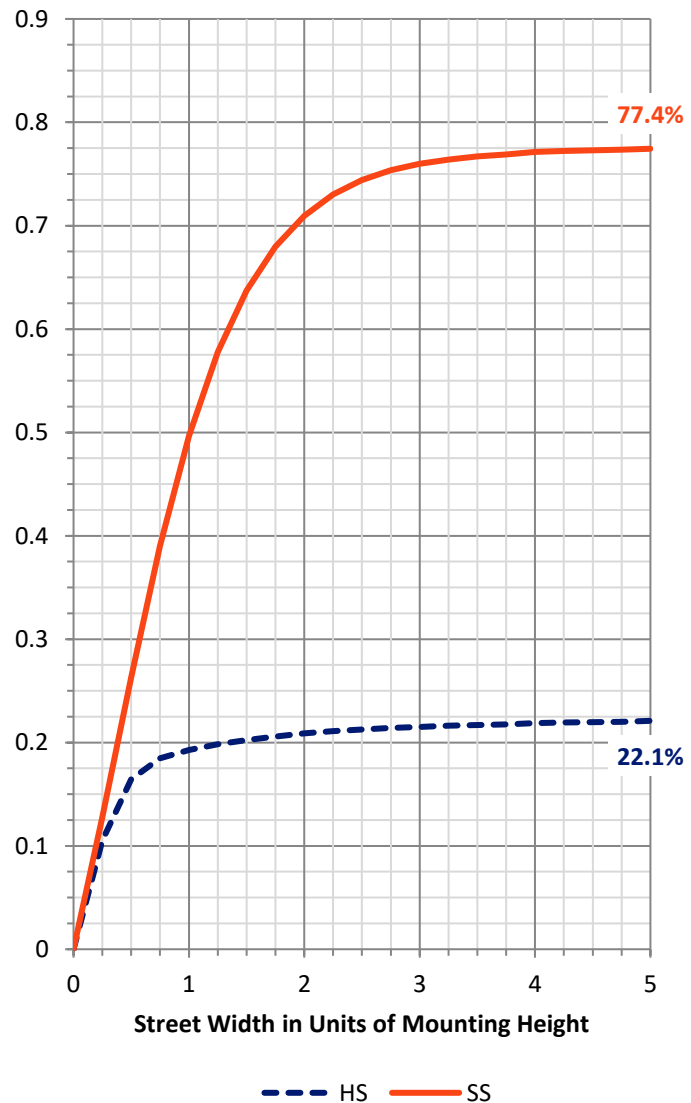
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	662.1	0.0	662.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	2277.9	0.0	2277.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	2940.0	0.0	2940.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.5
10°-20°	142.0	4.8
20°-30°	244.5	8.3
30°-40°	363.7	12.4
40°-50°	500.9	17.0
50°-60°	598.8	20.4
60°-70°	631.9	21.5
70°-80°	378.7	12.9
80°-90°	34.8	1.2
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°	2940.0	100.0
0°-180°	2940.0	100.0



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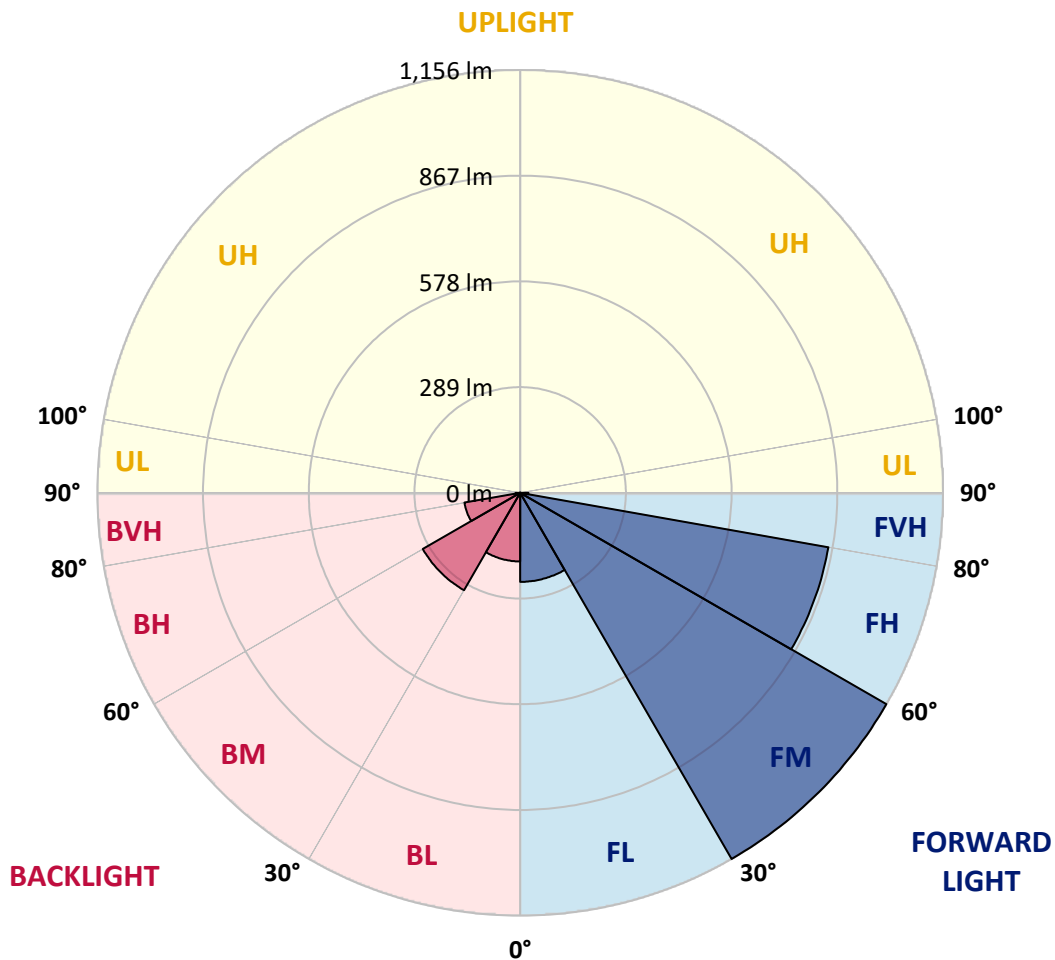
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.4	8.3			
FM	(30°-60°)	1156.1	39.3			
FH	(60°-80°)	855.8	29.1			G1/1800
FVH	(80°-90°)	22.5	0.8			G1/100
BL	(0°-30°)	187.6	6.4	B1/500		
BM	(30°-60°)	307.4	10.5	B1/1000		
BH	(60°-80°)	154.8	5.3	B1/500		G1/500
BVH	(80°-90°)	12.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
2.5°	447.0	446.7	445.4	440.6	440.0	439.5	436.3	436.6	435.8	436.6	436.8
5°	459.3	458.2	456.9	451.8	449.9	447.5	442.7	442.4	440.6	441.1	441.6
7.5°	474.5	473.4	472.4	466.5	464.6	460.3	452.9	449.1	447.5	448.1	448.9
10°	495.1	493.2	491.6	483.1	480.1	472.9	463.8	457.4	455.3	456.1	458.2
12.5°	518.6	516.2	513.5	504.7	500.7	489.5	478.8	470.5	467.3	469.2	470.8
15°	543.0	541.6	540.5	530.1	524.5	512.2	498.8	488.4	485.5	487.1	487.9
17.5°	575.0	574.2	572.4	561.7	551.0	536.8	519.4	508.5	505.5	506.3	504.5
20°	610.1	607.9	606.8	594.8	583.6	564.1	544.0	528.5	527.7	528.0	522.1
22.5°	649.4	646.9	644.8	633.8	619.9	597.2	571.0	553.6	554.2	554.7	541.6
25°	689.5	687.6	685.7	675.3	661.4	636.5	605.0	585.5	585.2	585.5	567.3
27.5°	731.4	729.3	729.0	720.5	706.6	681.2	644.8	625.0	625.0	624.0	596.4
30°	768.9	771.0	771.0	766.2	753.1	727.7	693.5	673.7	676.4	674.2	639.2
32.5°	809.8	809.2	813.0	809.2	798.5	775.0	746.4	733.8	738.4	745.3	710.3
35°	833.5	837.3	846.6	852.0	846.9	827.7	806.8	816.4	822.6	853.9	811.9
37.5°	861.1	864.3	877.1	890.2	892.4	881.9	881.9	913.5	925.5	966.4	917.5
40°	880.1	883.3	897.2	912.4	933.3	940.5	959.2	1008.1	1025.2	1052.8	996.1
42.5°	868.8	870.4	900.4	937.5	968.3	1003.0	1032.7	1094.7	1111.0	1130.3	1060.8
45°	849.1	852.0	885.1	945.0	998.0	1066.9	1104.4	1176.3	1195.0	1193.1	1110.5
47.5°	827.1	831.7	868.6	935.4	1023.4	1122.3	1169.9	1244.7	1255.4	1242.0	1145.0
50°	802.8	810.6	849.9	925.8	1041.8	1170.7	1218.5	1296.0	1301.6	1274.4	1175.2
52.5°	775.0	780.1	823.7	907.3	1054.6	1202.7	1257.3	1334.3	1336.7	1314.5	1207.0
55°	736.5	741.0	789.4	882.7	1056.5	1221.7	1282.1	1375.2	1383.2	1361.5	1235.9
57.5°	695.1	700.7	750.4	847.2	1039.4	1229.5	1312.1	1427.8	1443.3	1412.3	1259.1
60°	646.9	654.2	704.4	803.9	1005.7	1241.5	1367.9	1504.6	1523.8	1469.8	1281.3
62.5°	597.0	601.0	647.2	744.0	953.3	1247.6	1418.7	1592.2	1610.7	1524.1	1291.8
65°	526.6	533.1	574.2	672.1	879.5	1221.2	1442.5	1653.5	1666.8	1568.2	1281.6
67.5°	452.1	452.1	487.1	586.0	781.1	1151.1	1432.9	1682.9	1698.9	1599.2	1249.5
69°	400.5	404.5	431.2	521.3	709.0	1088.8	1422.5	1709.9	1723.0	1589.3	1212.6
70°	360.9	364.4	391.4	474.2	655.2	1039.7	1400.0	1697.8	1707.5	1558.8	1173.9
72.5°	265.5	268.4	287.1	330.4	492.7	838.9	1262.3	1535.0	1540.9	1401.9	1035.6
75°	181.0	182.6	196.8	223.2	287.4	586.5	1031.4	1296.6	1313.9	1215.8	848.0
77.5°	62.6	67.4	75.9	102.7	123.0	230.4	699.1	1021.7	1047.7	941.5	593.2
80°	21.4	21.1	40.6	52.7	64.7	105.9	221.1	428.3	452.6	388.2	213.6
82.5°	16.0	16.6	27.0	29.1	19.8	39.0	86.1	131.0	143.6	125.4	88.5
85°	10.2	9.9	12.0	12.6	9.1	16.6	20.9	21.1	21.9	19.0	19.2
87.5°	5.6	5.6	5.3	4.5	2.4	2.1	1.9	1.9	1.6	1.6	1.6
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°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
2.5°	435.5	439.2	440.0	441.1	443.8	447.2	452.1	452.1	453.9	459.5	461.4
5°	441.6	446.2	452.1	458.2	465.4	473.2	480.9	483.6	487.3	494.8	496.4
7.5°	451.0	456.1	466.2	474.5	480.7	488.4	494.8	495.9	500.7	507.7	509.0
10°	460.6	465.2	475.3	479.6	487.9	496.4	499.6	501.3	505.3	510.6	509.8
12.5°	473.7	475.1	482.3	485.2	489.2	494.6	496.2	496.2	498.6	507.1	507.4
15°	486.5	486.5	487.6	486.0	486.5	489.2	489.5	486.0	488.7	493.0	491.4
17.5°	500.2	496.4	491.6	484.7	478.5	478.3	472.6	464.4	462.0	468.1	467.8
20°	513.0	506.6	495.1	479.3	470.8	459.3	445.1	440.3	440.0	441.1	440.3
22.5°	529.9	516.8	495.9	474.2	450.7	432.5	420.8	404.5	403.9	401.5	397.8
25°	549.9	531.2	499.4	468.6	434.4	410.9	382.6	365.2	355.3	357.4	351.0
27.5°	575.8	553.1	500.7	456.3	412.0	372.1	337.9	315.5	306.9	303.2	298.9
30°	611.4	576.4	510.3	445.9	384.2	331.5	289.5	256.9	244.6	247.8	248.4
32.5°	668.3	620.5	515.4	425.3	352.1	287.1	232.6	197.3	190.1	199.2	201.6
35°	767.5	688.9	527.4	413.0	315.5	235.3	173.0	158.5	160.1	167.9	168.4
37.5°	865.1	775.5	564.6	386.3	271.6	174.3	134.2	126.4	134.2	144.1	145.4
40°	933.5	843.2	597.5	359.8	210.1	126.2	102.4	93.0	104.3	120.0	123.0
42.5°	994.2	896.9	620.7	323.2	143.8	90.1	73.5	75.9	92.5	104.0	106.7
45°	1037.8	933.8	636.8	275.6	91.7	68.2	65.8	73.5	89.3	98.4	99.2
47.5°	1065.3	955.4	625.0	217.1	69.0	64.4	64.7	74.6	90.4	100.5	100.3
50°	1090.2	966.9	586.8	172.2	65.5	61.8	66.0	77.5	93.8	103.2	102.7
52.5°	1116.7	978.2	540.3	135.0	62.8	60.4	67.6	79.4	93.8	99.7	98.9
55°	1139.4	988.1	505.3	108.5	61.0	60.2	69.2	82.3	93.3	95.7	94.1
57.5°	1151.1	971.2	467.3	91.2	59.1	60.2	70.3	81.8	96.5	104.3	102.7
60°	1144.7	955.4	436.6	84.7	56.4	59.9	70.8	87.7	118.4	125.6	125.1
62.5°	1133.0	938.1	393.5	76.2	53.5	60.4	70.6	93.0	136.3	133.9	127.3
65°	1108.9	903.3	334.7	66.3	50.5	61.5	70.6	104.8	119.0	116.3	113.3
67.5°	1057.6	828.2	267.9	56.9	47.3	58.3	69.5	99.7	102.4	95.4	92.0
69°	1000.1	756.6	212.0	51.9	45.4	56.7	69.2	96.2	100.8	93.3	89.3
70°	955.2	700.7	171.4	48.1	43.6	56.1	69.0	93.8	100.0	91.7	87.4
72.5°	795.6	566.2	89.8	38.8	37.2	51.1	66.6	91.7	100.3	88.0	81.8
75°	625.0	402.9	59.6	29.7	28.6	44.6	61.0	88.2	94.4	79.1	69.8
77.5°	385.5	176.4	41.2	20.6	20.9	34.8	52.4	78.9	95.2	79.9	67.9
80°	112.0	68.2	26.2	13.9	12.8	20.6	41.2	67.9	90.4	82.1	74.1
82.5°	64.7	44.4	17.6	8.8	7.8	9.4	25.9	52.7	79.7	75.1	76.7
85°	14.7	12.3	6.4	4.3	4.3	5.3	8.8	30.5	55.1	64.4	72.7
87.5°	1.6	1.6	1.6	1.6	1.6	1.3	1.6	8.3	24.1	34.2	39.8
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)