

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: P234041

Luminaire Tested: **VERD-C013-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
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-T3-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2458 lumens
Efficiency: N/A
Efficacy: 102.4 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

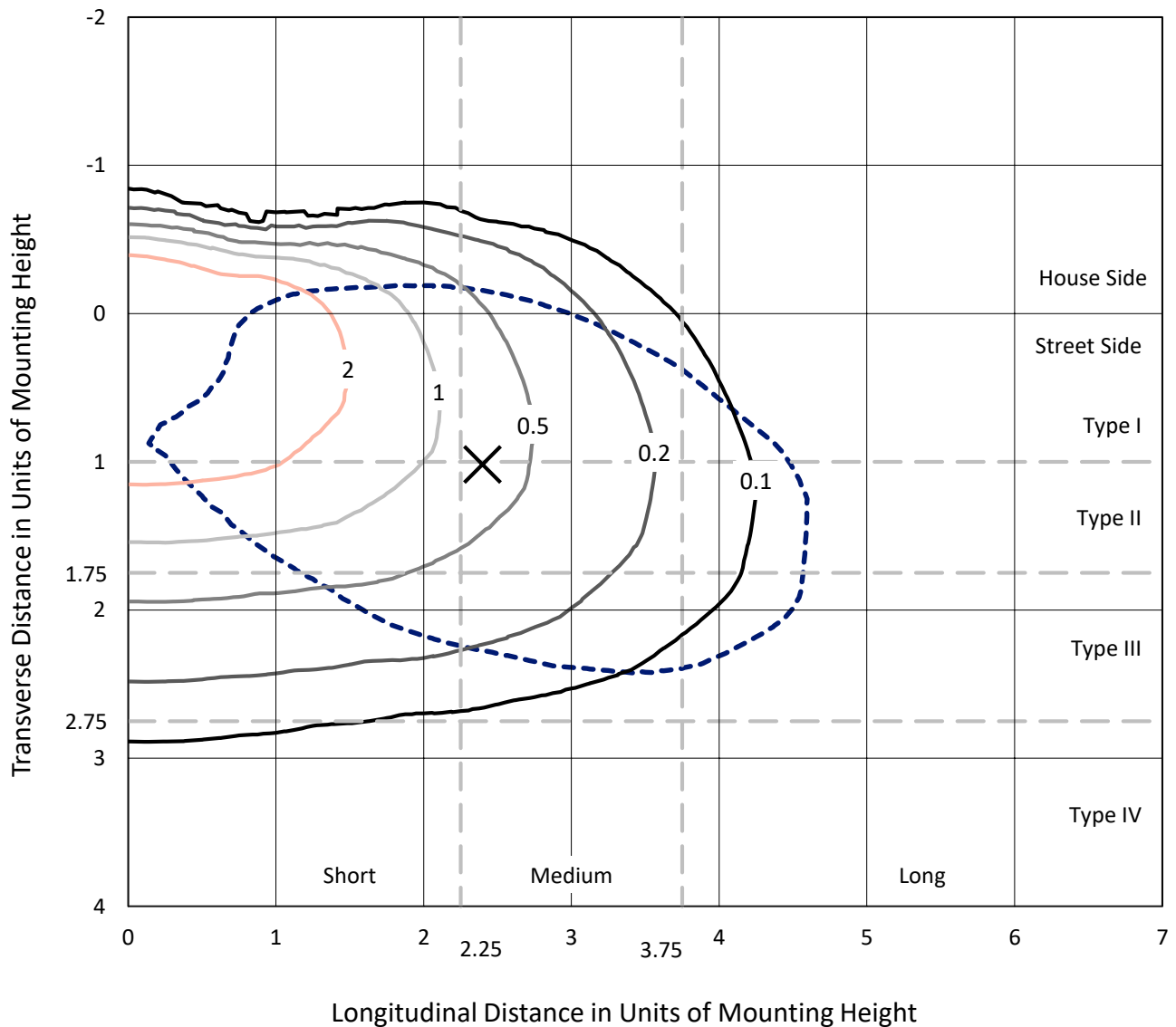
Input Watts (W): 24
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

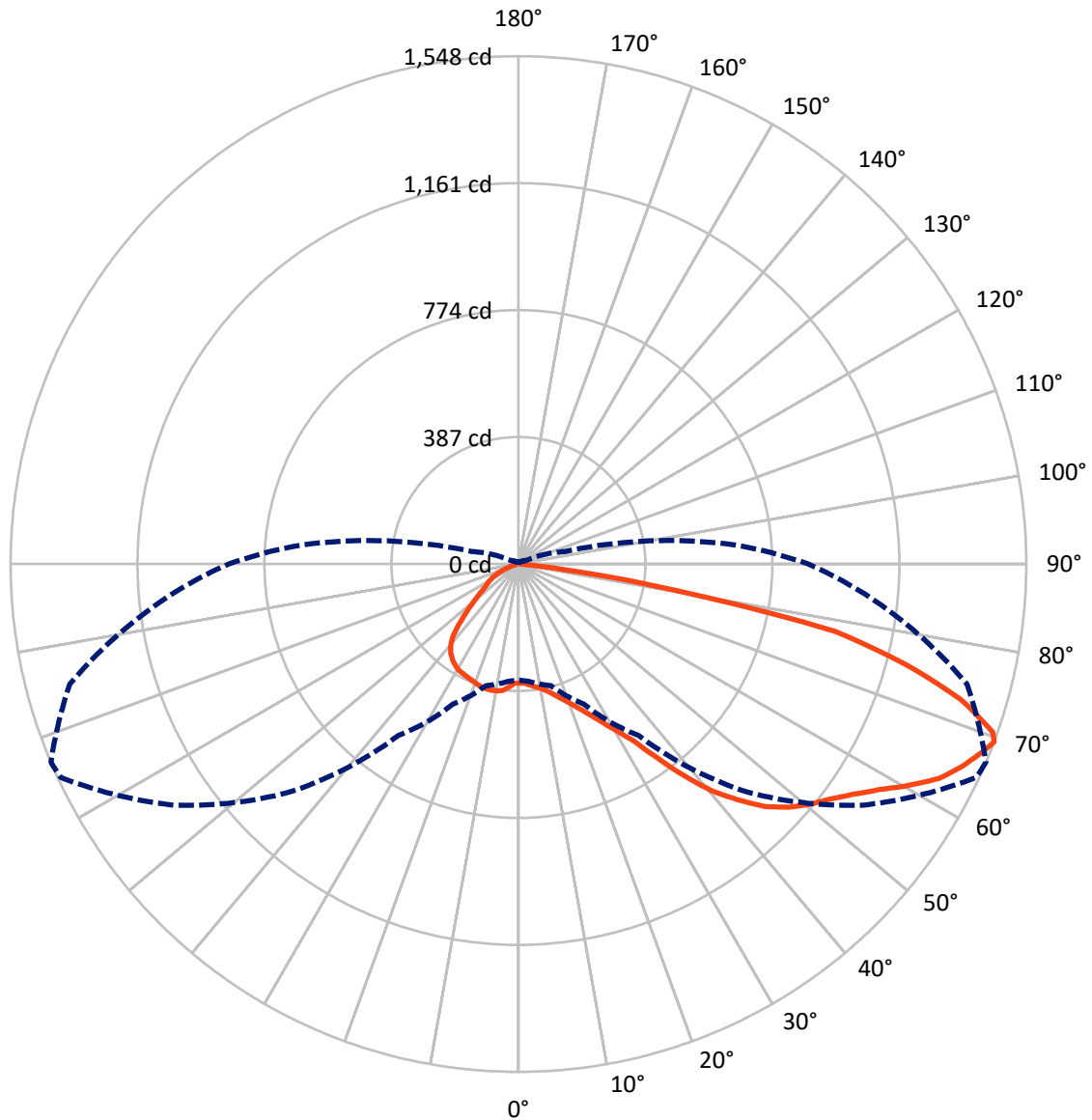
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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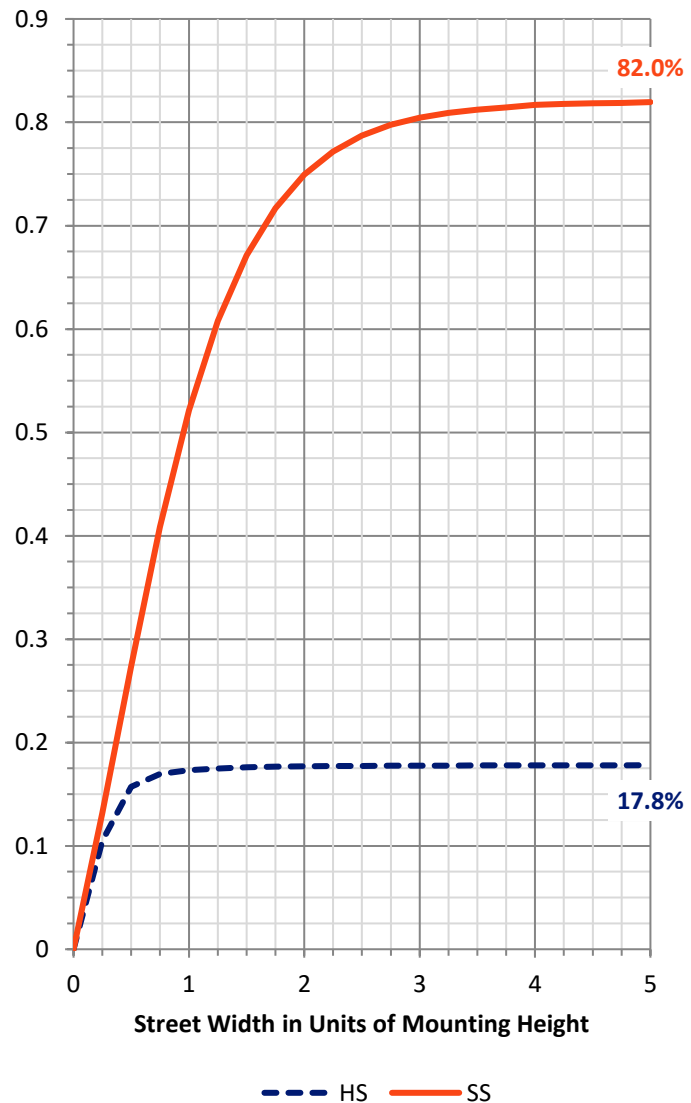
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.1	0.0	443.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	2014.9	0.0	2014.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	2458.0	0.0	2458.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	1.5
10°-20°	115.4	4.7
20°-30°	197.0	8.0
30°-40°	297.8	12.1
40°-50°	420.7	17.1
50°-60°	508.4	20.7
60°-70°	536.5	21.8
70°-80°	323.0	13.1
80°-90°	22.6	0.9
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°	2458.0	100.0
0°-180°	2458.0	100.0



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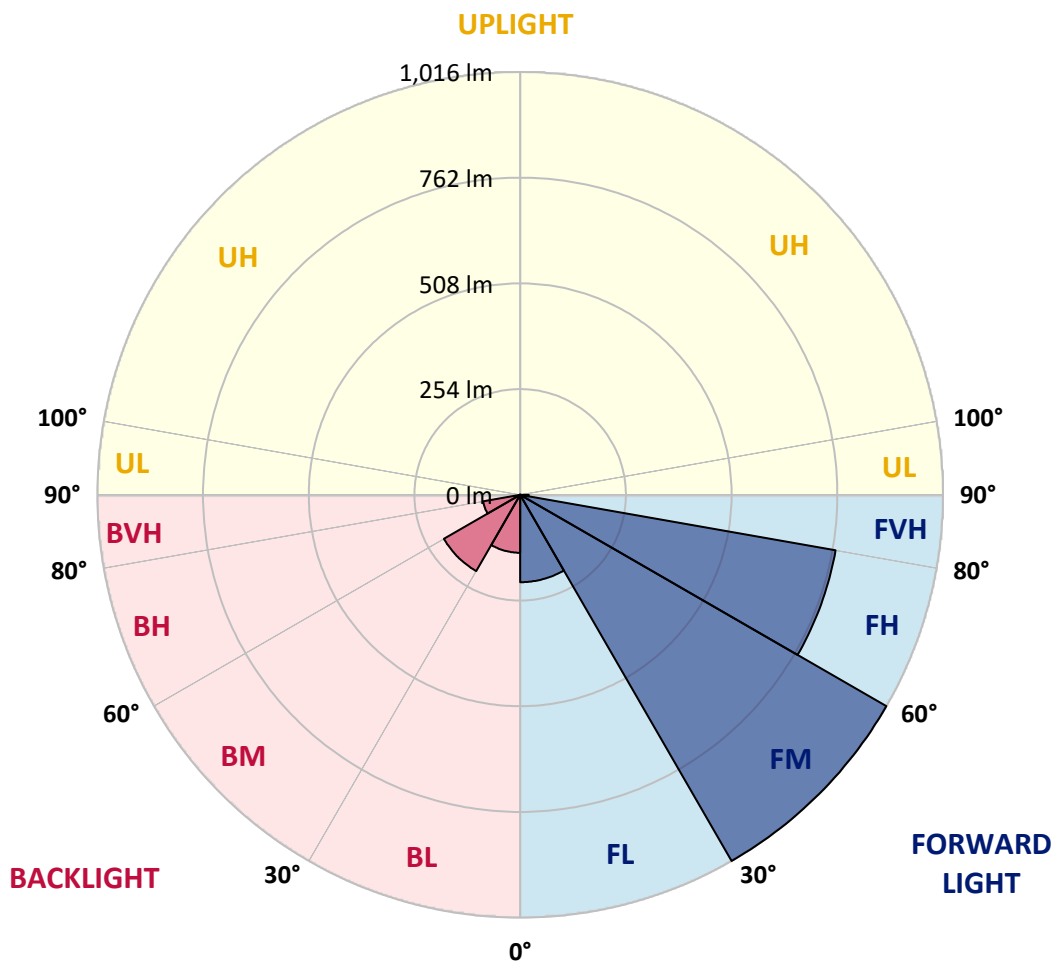
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.9	8.5			
FM	(30°-60°)	1015.5	41.3			
FH	(60°-80°)	769.1	31.3			G1/1800
FVH	(80°-90°)	20.4	0.8			G1/100
BL	(0°-30°)	139.2	5.7	B1/500		
BM	(30°-60°)	211.4	8.6	B0/220		
BH	(60°-80°)	90.3	3.7	B0/110		G0/110
BVH	(80°-90°)	2.2	0.1			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5
2.5°	372.9	372.3	372.3	369.0	365.9	365.1	364.9	363.9	364.1	362.7	361.3
5°	383.7	383.7	383.3	379.0	375.6	373.5	372.1	370.4	370.6	369.6	368.4
7.5°	399.9	400.1	399.3	393.7	390.3	385.0	381.9	378.6	378.4	377.2	377.6
10°	419.9	420.5	419.3	412.1	406.4	399.1	392.5	386.6	386.2	384.8	386.0
12.5°	442.4	443.2	440.3	432.8	426.4	415.0	407.0	399.1	398.0	397.8	398.6
15°	468.3	468.7	467.7	456.7	448.9	438.5	425.4	415.4	414.2	414.4	413.4
17.5°	497.1	498.1	495.9	486.1	475.7	461.4	445.8	433.4	432.8	432.2	427.9
20°	527.6	528.6	527.2	518.0	505.7	487.7	468.5	454.4	454.2	452.8	442.8
22.5°	562.1	563.5	562.7	551.5	538.4	518.8	494.9	480.2	479.8	475.5	460.4
25°	599.5	599.1	599.9	587.9	575.6	555.0	525.5	510.2	510.2	504.9	482.6
27.5°	635.7	635.5	636.9	628.5	615.6	596.2	560.5	545.1	546.4	538.8	509.2
30°	671.0	671.0	674.3	668.8	659.2	638.9	604.0	587.8	589.5	581.5	542.9
32.5°	703.9	705.5	711.1	707.8	700.6	682.2	652.4	637.5	641.6	644.9	605.6
35°	728.2	729.7	742.9	744.0	742.3	729.9	707.8	717.4	722.3	748.5	704.7
37.5°	749.5	751.5	767.2	776.9	782.6	775.0	776.4	808.5	817.7	848.6	789.3
40°	765.2	769.5	785.0	798.5	818.5	827.5	849.8	895.4	910.3	922.7	847.5
42.5°	754.4	757.4	784.6	820.8	850.0	881.7	918.0	972.2	983.4	979.5	898.8
45°	738.6	742.1	770.7	826.7	875.1	938.3	982.6	1041.3	1054.1	1032.3	943.0
47.5°	720.7	725.6	756.6	818.9	896.0	990.4	1041.1	1100.7	1108.1	1079.5	980.2
50°	702.7	708.2	743.3	812.4	912.3	1033.9	1083.8	1149.1	1151.2	1118.7	1013.7
52.5°	678.4	684.1	722.5	798.9	923.6	1062.5	1121.3	1188.8	1190.2	1161.0	1045.5
55°	647.7	654.9	695.5	778.9	926.4	1079.1	1145.0	1230.1	1239.4	1206.8	1071.5
57.5°	611.4	618.1	662.8	750.1	912.7	1084.8	1178.0	1284.8	1297.5	1253.3	1093.0
60°	569.7	577.4	622.2	712.9	885.1	1100.7	1232.9	1362.0	1369.6	1301.8	1112.0
62.5°	527.0	532.5	573.3	660.6	842.0	1110.3	1281.5	1434.4	1439.5	1348.6	1123.4
65°	466.3	473.2	512.9	600.7	779.9	1091.9	1300.1	1484.0	1487.1	1387.8	1117.9
67.5°	400.3	405.8	434.8	528.4	698.4	1033.5	1292.4	1517.1	1527.1	1418.4	1093.0
69°	353.5	359.0	384.1	470.6	637.9	981.8	1281.7	1539.6	1548.4	1416.2	1061.3
70°	317.1	322.6	346.3	427.5	590.5	938.1	1264.6	1528.2	1533.9	1392.1	1030.4
72.5°	226.8	232.3	251.7	300.6	447.3	771.1	1159.1	1402.1	1409.7	1276.4	920.9
75°	118.7	131.8	166.7	194.3	265.0	542.9	963.6	1205.9	1217.0	1120.1	757.4
77.5°	15.3	16.1	47.0	78.9	109.5	229.0	684.5	968.3	985.9	896.4	523.7
80°	12.3	12.5	16.3	39.4	54.4	92.8	242.9	453.2	474.5	398.4	192.5
82.5°	8.6	9.0	12.7	20.8	17.8	33.9	84.4	128.1	132.0	114.2	76.8
85°	4.9	4.9	6.1	8.0	5.7	12.7	17.4	18.6	16.6	16.5	12.3
87.5°	1.4	1.6	1.8	1.4	0.6	0.6	0.8	0.8	0.8	0.6	0.6
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°	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5
2.5°	363.5	363.1	363.3	364.1	365.3	369.6	372.5	372.9	374.3	379.4	378.8
5°	369.8	372.1	373.5	377.6	380.3	386.2	389.7	390.1	392.1	397.4	397.6
7.5°	378.6	382.5	384.5	389.2	390.1	392.9	393.9	392.9	393.1	397.8	398.2
10°	386.2	391.1	391.1	392.3	390.5	390.7	387.6	384.7	383.1	387.2	388.2
12.5°	398.0	399.3	396.2	392.7	387.4	382.7	377.4	372.7	369.0	371.3	370.0
15°	410.1	408.0	400.3	391.1	381.7	373.7	362.7	355.9	349.4	350.8	349.6
17.5°	422.3	415.2	403.3	388.0	374.3	359.0	343.7	332.9	321.2	320.2	318.5
20°	434.0	423.8	404.0	381.5	362.3	340.8	317.1	298.7	281.2	276.7	273.8
22.5°	448.1	433.4	405.0	375.3	349.4	320.0	284.2	255.6	236.8	230.5	227.6
25°	466.1	446.7	407.8	370.6	336.3	294.4	245.2	212.5	192.1	181.4	180.4
27.5°	487.5	462.8	412.5	364.5	317.7	260.1	204.9	170.8	149.0	138.1	134.6
30°	515.5	482.8	416.8	359.8	291.4	222.7	162.6	124.6	98.7	91.7	87.9
32.5°	568.6	515.3	422.3	348.8	260.5	181.8	115.2	76.8	59.1	54.4	54.4
35°	654.9	586.8	436.0	333.7	223.3	132.4	69.1	43.1	35.3	32.5	31.1
37.5°	732.9	658.8	470.2	310.4	178.0	78.3	39.6	26.6	24.1	24.5	24.5
40°	787.9	708.2	508.0	278.9	120.8	41.9	25.1	21.3	21.7	21.9	21.9
42.5°	835.1	750.3	528.8	241.5	65.8	27.2	21.5	19.4	20.0	19.8	19.6
45°	874.7	784.6	535.7	190.0	31.9	24.1	19.6	17.8	17.8	17.6	17.6
47.5°	908.6	814.9	522.9	141.2	25.9	22.1	18.6	16.5	16.3	17.2	17.2
50°	939.5	838.4	491.2	106.9	25.1	20.4	17.6	15.3	15.5	16.8	16.8
52.5°	965.4	852.3	444.2	80.1	23.3	18.8	16.3	14.3	14.3	15.7	15.7
55°	984.5	852.3	408.4	59.9	22.3	17.2	15.1	13.7	12.9	13.3	13.5
57.5°	994.1	836.3	379.6	48.6	21.2	15.7	13.9	11.9	10.6	11.0	10.8
60°	991.6	827.1	346.5	43.3	19.8	14.5	12.3	10.2	8.8	8.4	8.4
62.5°	986.9	816.7	305.1	37.6	18.4	13.5	10.2	8.2	7.4	7.1	7.2
65°	969.1	783.0	252.8	31.3	17.0	13.1	8.6	7.2	6.5	6.1	6.1
67.5°	926.0	722.3	191.2	26.4	15.9	10.6	7.4	6.3	5.5	5.1	5.1
69°	883.3	664.3	146.7	24.1	15.1	9.6	6.9	5.7	5.1	4.5	4.5
70°	846.5	619.5	115.0	22.5	14.5	9.2	6.7	5.5	4.9	4.3	4.3
72.5°	720.7	491.4	58.4	19.6	12.1	8.0	5.9	4.9	4.1	3.5	3.5
75°	559.2	338.6	38.6	15.5	9.4	7.2	5.3	4.3	3.5	2.9	2.7
77.5°	336.5	132.4	27.6	10.0	6.1	5.7	4.3	3.5	2.9	2.4	2.4
80°	92.8	56.8	18.6	6.7	3.5	3.7	3.1	2.5	2.2	1.8	1.8
82.5°	55.8	36.8	12.3	4.3	2.4	2.4	1.8	1.8	1.4	1.4	1.4
85°	9.6	7.4	2.9	1.8	1.4	1.4	1.0	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.8	0.8	0.6	0.4	0.2	0.0	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)