

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: P233766

Luminaire Tested: **VERD-C015-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C015-D-U-T4-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 750mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3540 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

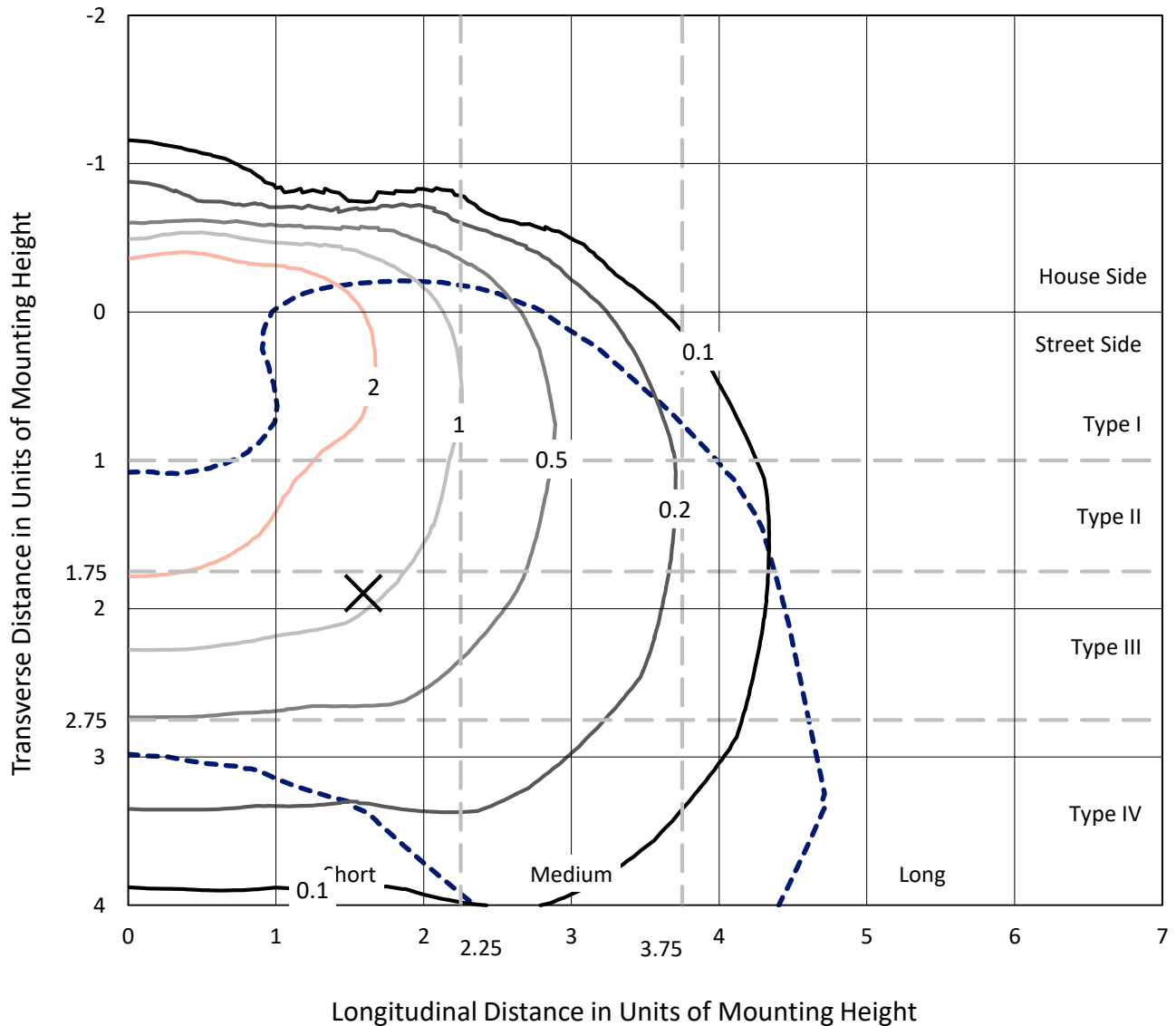
Input Watts (W): 30
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

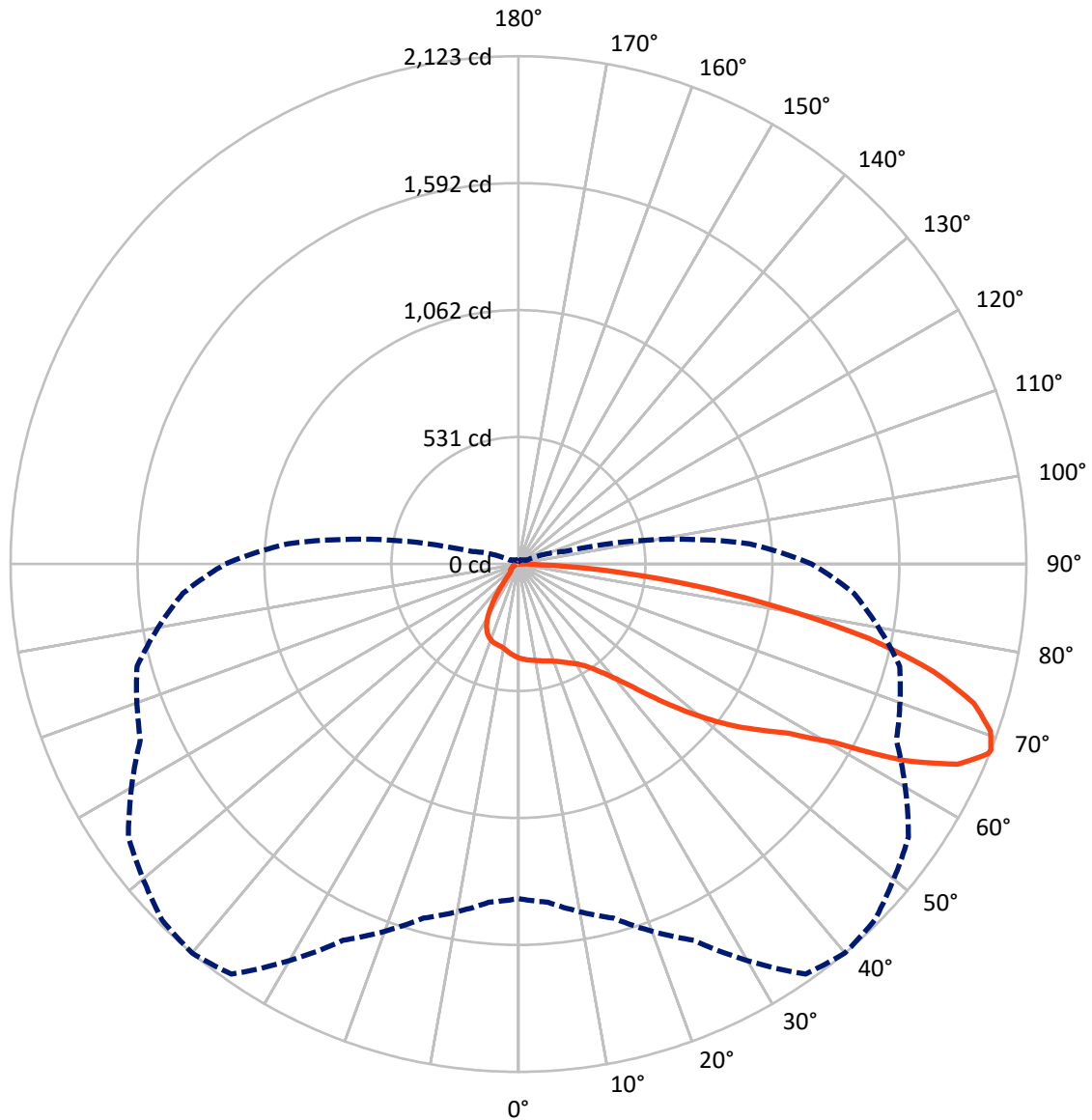
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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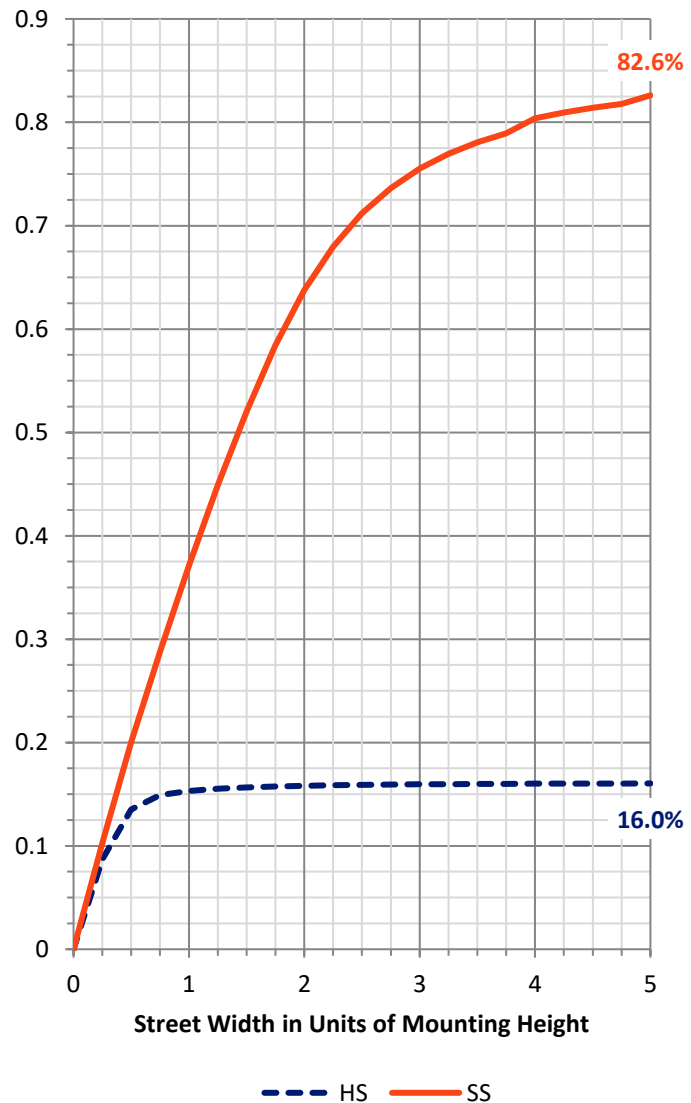
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.3	0.0	574.3
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	2965.7	0.0	2965.7
	% Fixture	83.8	0.0	83.8
Total	Lumens	3540.0	0.0	3540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.1
10°-20°	111.8	3.2
20°-30°	187.6	5.3
30°-40°	277.8	7.8
40°-50°	470.0	13.3
50°-60°	717.3	20.3
60°-70°	939.2	26.5
70°-80°	675.3	19.1
80°-90°	123.6	3.5
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°	3540.0	100.0
0°-180°	3540.0	100.0

Coefficient of Utilization



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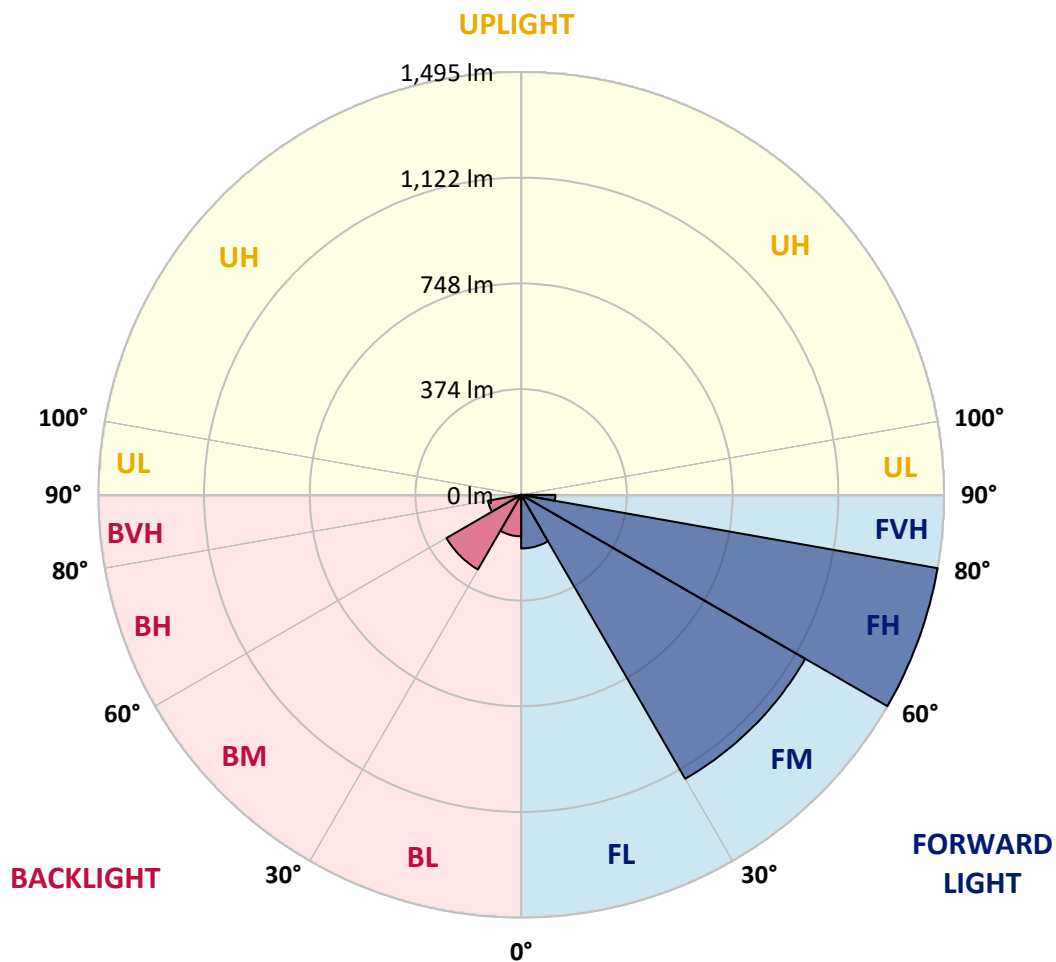
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.8	5.4			
FM (30°-60°)	1159.9	32.8			
FH (60°-80°)	1495.3	42.2			G1/1800
FVH (80°-90°)	120.7	3.4			G2/225
BL (0°-30°)	146.9	4.2	B1/500		
BM (30°-60°)	305.2	8.6	B1/1000		
BH (60°-80°)	119.2	3.4	B1/500		G1/500
BVH (80°-90°)	2.9	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	405.8	406.7	405.5	402.6	399.3	397.5	397.2	396.9	395.4	393.4	390.4
5°	410.0	410.3	409.1	406.7	403.7	403.1	402.3	402.6	401.7	399.6	396.3
7.5°	411.7	412.3	410.9	408.5	406.1	406.1	405.8	406.7	406.1	405.2	401.4
10°	411.1	412.0	411.1	410.3	409.4	410.3	409.7	411.7	412.0	412.0	407.6
12.5°	410.3	411.4	411.7	412.6	414.1	415.0	416.2	420.6	422.7	424.2	420.6
15°	411.1	411.7	414.1	415.6	418.6	420.6	423.3	430.7	434.3	438.4	436.6
17.5°	415.0	416.5	420.0	421.5	424.5	426.0	429.2	438.4	445.5	452.9	454.1
20°	423.3	424.2	430.1	430.7	432.2	433.7	437.2	447.3	458.0	468.7	471.6
22.5°	432.5	434.6	440.2	439.3	442.3	442.9	446.1	457.1	471.9	485.0	491.5
25°	442.0	443.8	449.4	450.0	453.5	455.9	459.8	470.4	489.4	506.0	517.6
27.5°	450.0	453.5	458.9	459.5	466.3	469.2	474.9	487.0	509.9	530.3	549.3
30°	464.8	465.7	470.7	472.5	481.7	484.4	490.9	506.3	534.2	559.7	589.3
32.5°	483.2	482.9	487.6	490.6	501.9	506.6	514.9	532.7	563.5	595.2	637.3
35°	517.0	514.0	517.0	519.9	533.0	538.0	546.9	573.6	609.8	663.7	715.6
37.5°	594.6	590.2	584.0	569.1	572.4	578.9	592.0	628.1	681.5	781.7	831.8
40°	729.2	719.4	693.3	654.2	631.1	631.7	643.8	691.3	769.5	916.9	954.5
42.5°	851.1	844.2	812.8	759.2	705.8	702.8	707.0	762.4	865.6	1042.2	1061.8
45°	965.8	969.0	923.4	881.3	817.6	798.0	792.9	838.3	972.0	1154.0	1155.8
47.5°	1071.9	1077.2	1022.1	982.4	919.5	902.6	886.9	918.0	1072.5	1249.2	1234.6
50°	1186.0	1190.2	1113.7	1081.1	1028.3	1012.6	1000.7	1014.4	1175.3	1337.5	1304.9
52.5°	1343.7	1320.6	1224.6	1170.6	1123.8	1122.6	1113.4	1122.0	1292.4	1416.9	1358.2
55°	1529.9	1469.4	1367.4	1281.2	1221.0	1224.3	1213.3	1227.5	1408.3	1485.1	1407.7
57.5°	1595.7	1594.2	1546.8	1464.1	1341.9	1334.5	1315.6	1331.6	1508.5	1548.8	1442.7
60°	1687.0	1695.0	1700.3	1650.5	1580.0	1512.7	1449.2	1447.8	1601.9	1606.9	1459.9
62.5°	1746.0	1753.4	1794.9	1788.4	1831.9	1809.7	1737.4	1577.0	1673.3	1644.6	1466.4
65°	1635.7	1654.1	1758.7	1838.5	1987.0	2018.1	2007.7	1775.6	1722.0	1655.6	1454.3
67.5°	1436.2	1460.2	1574.9	1761.4	2083.0	2117.7	2098.7	1975.7	1743.0	1650.8	1420.8
68°	1398.9	1419.6	1532.2	1735.6	2092.8	2123.0	2105.8	1990.5	1743.9	1650.2	1408.0
70°	1219.2	1236.1	1346.1	1603.4	2065.5	2093.7	2091.3	2004.5	1736.2	1631.8	1322.4
72.5°	945.9	962.8	1060.3	1329.8	1939.5	1991.1	1989.0	1948.7	1722.0	1538.2	1108.6
75°	683.9	702.5	791.5	1021.8	1678.4	1791.9	1814.7	1853.3	1574.0	1294.5	788.8
77.5°	493.9	507.5	584.3	771.9	1371.0	1500.8	1547.1	1585.9	1288.3	943.5	375.3
80°	329.3	339.1	413.2	573.9	1032.8	1109.2	1159.0	1094.1	733.1	341.2	40.6
82.5°	202.8	209.0	267.4	402.6	714.4	738.4	738.7	583.7	236.3	32.6	21.9
85°	108.8	110.9	145.3	219.7	377.4	395.4	388.3	245.1	47.7	17.5	11.9
87.5°	17.5	19.0	45.7	82.4	116.5	89.8	57.5	18.1	4.7	2.7	1.8
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°	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4	393.4
2.5°	391.9	391.0	388.6	387.4	384.5	385.4	385.4	383.0	384.2	388.9	388.3
5°	395.4	395.7	390.1	387.1	380.6	378.8	376.2	372.6	372.3	375.6	375.9
7.5°	398.4	399.9	391.9	386.0	377.1	370.8	365.5	359.3	357.8	359.9	359.9
10°	403.1	404.6	394.5	386.2	373.2	363.1	353.9	345.9	342.7	342.7	343.0
12.5°	415.6	414.7	403.1	390.4	375.0	359.0	344.5	333.8	326.1	325.8	324.6
15°	432.8	429.5	418.3	399.0	379.1	358.7	338.5	321.9	308.6	305.0	303.5
17.5°	451.2	447.0	433.4	410.0	385.7	358.4	331.7	308.6	286.4	277.8	275.1
20°	471.0	466.0	452.1	422.7	392.2	356.3	321.6	289.3	259.1	242.8	238.6
22.5°	493.0	488.8	471.9	435.8	396.6	351.9	305.9	265.0	226.5	203.1	201.3
25°	521.4	517.6	492.7	447.3	396.9	343.6	285.2	233.9	185.6	158.0	152.4
27.5°	555.5	548.7	509.3	454.4	392.2	329.0	258.2	192.4	137.8	114.7	114.1
30°	592.6	580.1	522.6	456.2	381.5	305.9	221.1	141.4	97.8	82.1	82.1
32.5°	636.1	613.3	536.2	453.2	364.0	273.9	169.3	98.1	67.3	59.9	59.9
35°	699.9	664.6	553.7	445.8	339.4	229.7	120.4	64.9	53.1	52.2	52.2
37.5°	800.7	742.0	577.4	433.4	305.6	175.2	78.3	50.1	50.7	50.7	50.4
40°	908.0	831.5	610.1	413.5	263.2	120.9	51.3	47.4	48.3	48.9	48.6
42.5°	1004.9	916.6	645.6	386.8	213.1	76.2	46.8	45.7	45.1	45.7	45.9
45°	1088.8	990.4	681.5	352.2	157.4	49.8	45.7	43.0	41.2	41.5	41.8
47.5°	1160.5	1048.5	705.8	315.7	104.3	44.2	44.2	39.4	37.6	37.6	37.6
50°	1223.4	1100.1	720.6	272.1	62.3	43.6	41.5	36.2	34.4	34.1	34.4
52.5°	1269.0	1136.2	718.8	219.1	41.8	42.1	37.9	33.2	31.1	31.7	32.0
55°	1305.2	1159.0	703.1	160.4	39.1	39.4	35.3	29.9	28.5	28.8	28.8
57.5°	1328.0	1164.7	671.1	104.3	38.2	35.3	31.7	26.7	24.9	24.9	24.9
60°	1335.4	1161.7	627.5	66.7	37.9	31.7	28.8	24.0	22.2	22.2	22.2
62.5°	1329.2	1144.5	553.7	48.0	35.3	29.6	26.1	21.3	19.6	19.0	19.0
65°	1307.0	1098.6	426.9	39.7	31.7	27.3	23.7	19.3	16.9	16.0	15.7
67.5°	1242.0	999.0	248.4	37.4	28.8	24.9	21.9	17.5	14.8	13.3	13.0
68°	1225.1	969.3	204.2	37.1	28.8	24.6	21.6	16.9	14.2	12.7	12.5
70°	1104.2	782.0	58.7	35.3	28.2	23.7	19.9	15.4	12.7	11.0	10.7
72.5°	831.5	458.3	36.8	31.4	27.9	21.0	19.3	15.4	11.3	9.5	8.9
75°	464.2	104.3	31.1	23.4	26.1	20.8	19.0	13.9	10.1	7.7	7.4
77.5°	95.5	30.2	26.7	16.3	19.9	18.1	16.0	11.9	9.2	5.9	5.6
80°	27.0	22.5	23.7	11.9	11.3	12.7	11.9	10.4	6.8	4.4	4.4
82.5°	17.5	16.6	21.3	8.0	5.9	5.9	7.7	6.2	5.9	3.6	3.6
85°	10.7	13.9	10.4	3.6	3.0	2.4	2.7	2.7	3.6	2.4	2.4
87.5°	1.5	1.5	1.5	1.5	1.5	1.2	0.9	0.9	0.9	1.2	1.2
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)