

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: P234030

Luminaire Tested: **VERD-C013-D-U-T4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)  
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-T4-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 560mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2901 lumens  
Efficiency: N/A  
Efficacy: 120.9 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 - 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

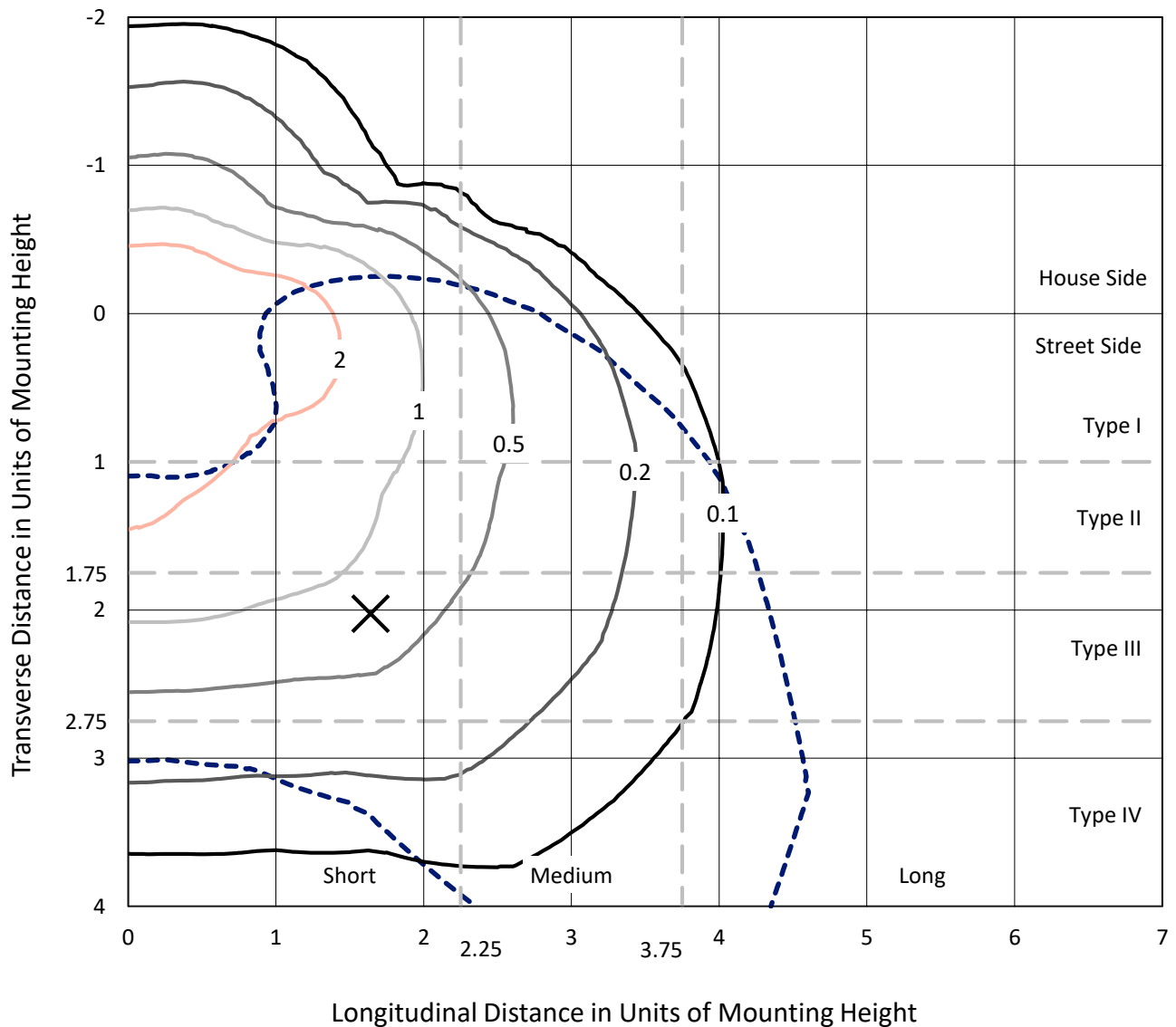


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

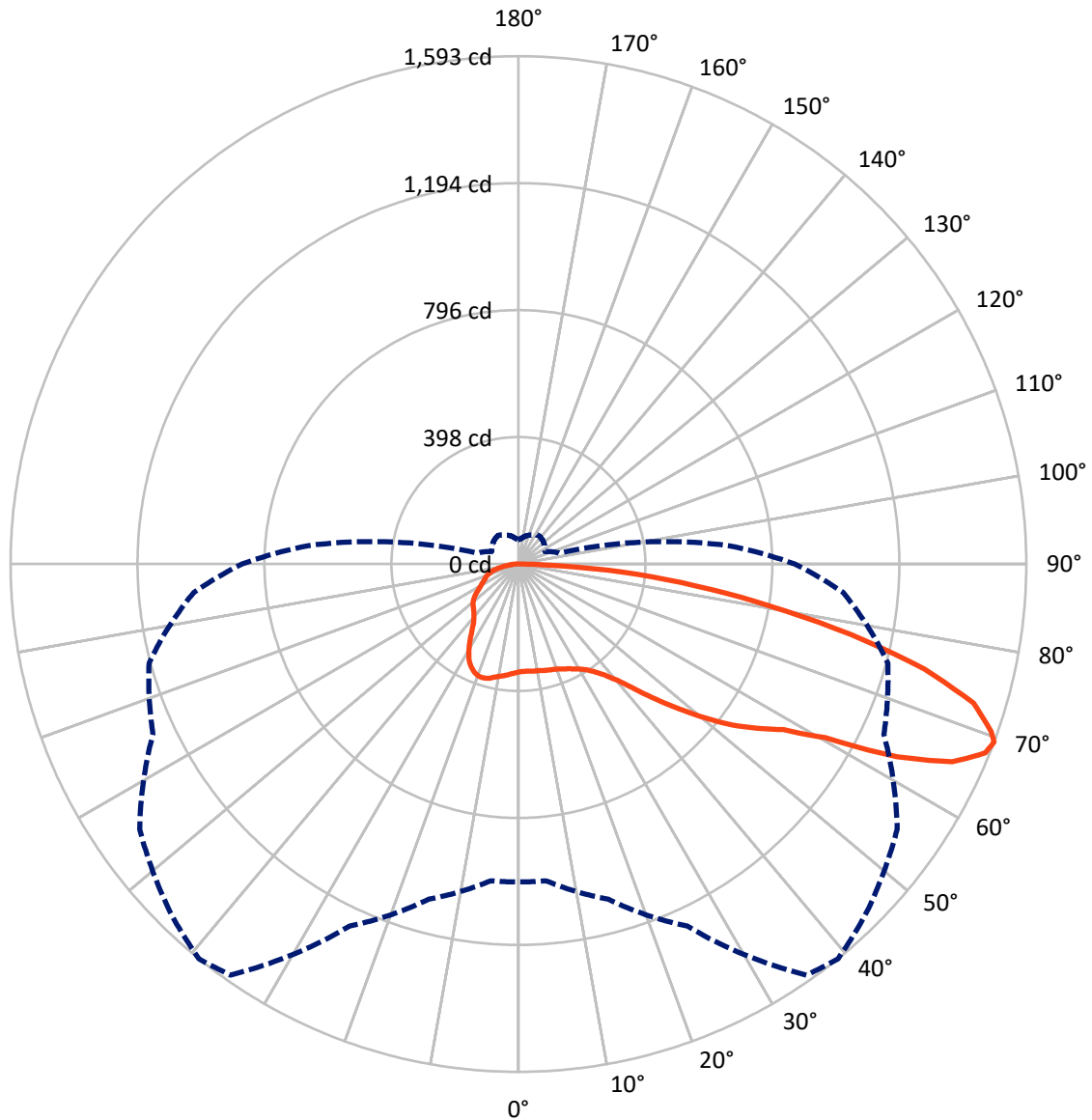


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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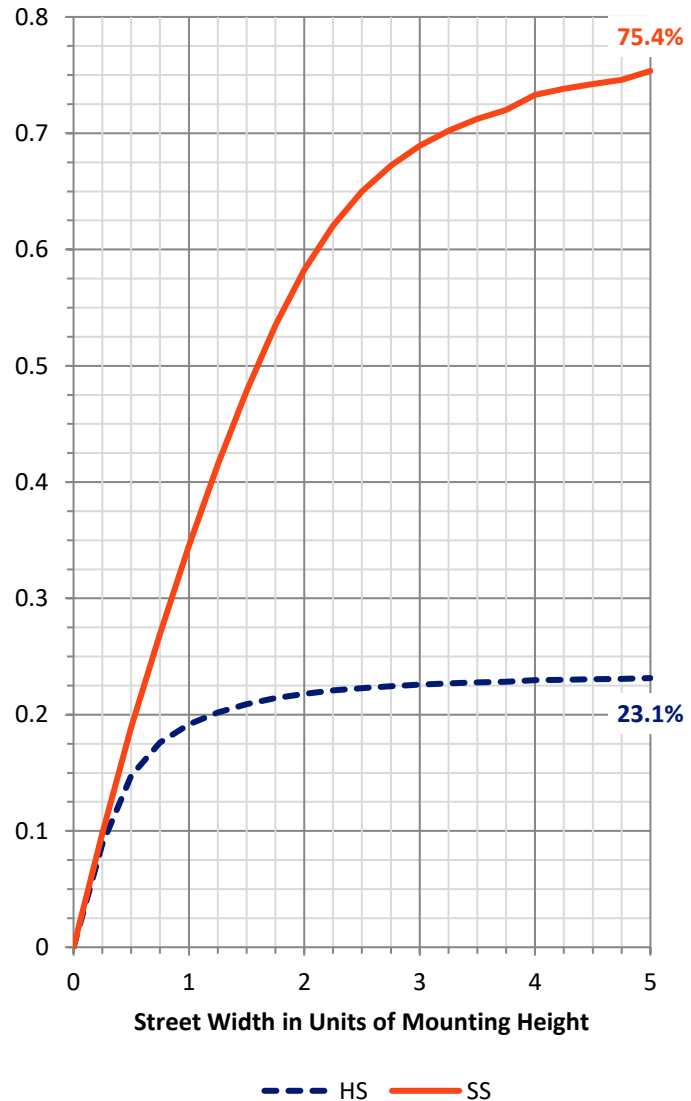
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	680.1	0.0	680.1
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	2220.9	0.0	2220.9
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2901.0	0.0	2901.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.8	1.1
10°-20°	101.5	3.5
20°-30°	170.9	5.9
30°-40°	247.5	8.5
40°-50°	400.1	13.8
50°-60°	585.8	20.2
60°-70°	733.2	25.3
70°-80°	524.1	18.1
80°-90°	105.1	3.6
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°	2901.0	100.0
0°-180°	2901.0	100.0



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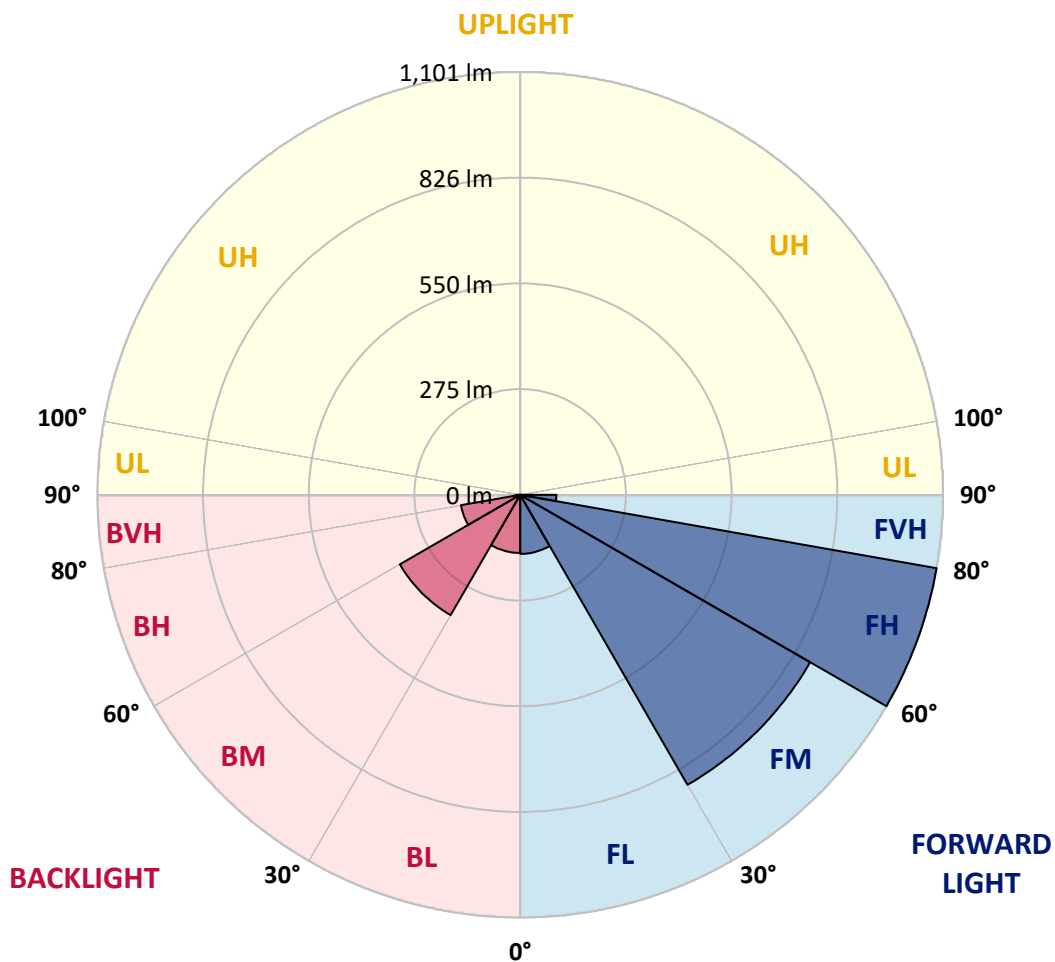
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	153.9	5.3			
FM	(30°-60°)	871.8	30.1			
FH	(60°-80°)	1100.9	37.9			G1/1800
FVH	(80°-90°)	94.3	3.3			G1/100
BL	(0°-30°)	151.3	5.2	B1/500		
BM	(30°-60°)	361.6	12.5	B1/1000		
BH	(60°-80°)	156.4	5.4	B1/500		G1/500
BVH	(80°-90°)	10.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9
2.5°	343.8	343.3	342.2	337.9	337.4	337.1	337.6	336.0	335.8	336.3	335.8
5°	344.1	343.5	342.2	338.4	337.9	337.4	337.6	336.3	336.6	337.9	337.9
7.5°	344.6	344.1	342.7	338.7	339.8	339.2	340.3	338.4	338.4	339.5	339.8
10°	343.3	343.0	342.2	339.2	340.9	339.8	340.9	341.1	342.2	343.0	342.7
12.5°	339.8	339.8	339.8	338.4	343.0	342.7	344.6	346.5	349.1	350.5	351.3
15°	337.6	337.4	339.2	339.0	344.6	345.4	348.6	353.4	357.4	360.9	362.0
17.5°	339.8	339.8	342.2	341.7	347.3	347.8	351.3	358.2	364.9	371.6	374.5
20°	342.2	342.5	345.4	346.2	351.5	351.3	354.8	363.3	372.4	382.3	387.4
22.5°	349.7	349.4	351.8	350.2	356.4	357.4	360.4	367.9	380.7	393.2	401.5
25°	355.3	356.1	358.5	357.4	362.5	363.8	368.7	375.9	391.1	406.1	420.8
27.5°	360.6	362.2	364.1	363.8	370.8	372.4	376.1	387.4	405.0	422.9	443.5
30°	368.7	368.1	369.5	371.9	381.0	382.0	386.6	400.2	421.6	444.8	472.4
32.5°	379.3	378.8	380.1	382.3	393.2	395.9	402.1	416.8	443.8	471.8	505.5
35°	396.2	397.5	398.6	401.3	412.0	415.7	424.0	442.7	474.0	518.9	567.0
37.5°	454.7	451.8	445.9	435.2	438.2	442.4	454.2	480.9	526.4	602.6	646.7
40°	546.2	542.7	524.2	493.0	478.8	479.9	491.4	527.7	589.7	700.9	741.6
42.5°	632.2	628.0	606.0	567.0	538.9	535.7	536.8	578.8	659.2	799.3	821.0
45°	713.5	715.7	682.2	652.3	620.2	605.5	601.0	632.2	736.5	884.6	891.3
47.5°	791.3	792.9	755.2	726.3	695.3	678.2	669.4	693.7	807.6	953.6	947.4
50°	870.7	875.0	823.4	798.8	770.2	757.9	749.3	765.4	886.2	1019.6	1000.6
52.5°	982.7	964.8	897.2	862.4	842.1	838.4	829.5	842.6	969.6	1077.9	1038.3
55°	1107.3	1069.1	998.0	937.3	909.2	909.2	901.5	916.7	1055.7	1121.5	1069.1
57.5°	1147.7	1151.4	1126.8	1060.8	985.4	979.5	972.0	992.9	1129.5	1160.5	1080.6
60°	1218.2	1228.7	1247.6	1192.6	1155.4	1105.4	1060.0	1071.2	1193.1	1192.6	1092.9
62.5°	1253.3	1263.2	1322.5	1292.8	1327.8	1331.3	1246.3	1159.7	1240.2	1208.6	1098.7
65°	1220.1	1227.1	1306.2	1345.2	1446.8	1495.2	1453.2	1278.7	1265.0	1201.9	1076.8
67.5°	1111.3	1124.4	1189.9	1308.9	1552.9	1579.9	1540.6	1442.0	1275.7	1204.1	1059.2
69°	996.9	997.2	1088.0	1253.0	1573.8	1592.5	1544.4	1449.8	1264.5	1199.0	1021.5
70°	932.5	939.1	1006.5	1204.6	1566.0	1572.2	1535.3	1449.5	1256.7	1197.4	985.7
72.5°	727.7	724.2	791.3	1007.3	1478.4	1492.0	1451.4	1408.6	1250.3	1128.4	833.8
75°	508.7	519.4	585.2	763.2	1273.8	1314.7	1314.7	1353.2	1150.9	964.3	602.8
77.5°	378.5	380.1	432.8	583.1	1025.0	1067.5	1106.5	1138.8	899.6	660.6	269.5
80°	256.4	258.8	306.9	430.1	759.5	798.5	860.3	783.6	535.2	228.6	30.7
82.5°	161.5	164.7	202.9	302.1	541.4	559.0	578.0	442.4	178.3	26.5	19.5
85°	96.0	96.5	122.4	193.0	330.2	331.2	310.9	203.7	47.9	15.8	12.3
87.5°	40.1	42.2	53.5	85.5	96.8	76.5	47.6	16.3	7.2	6.4	4.3
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°	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9
2.5°	334.2	337.1	336.6	337.4	338.4	340.6	343.0	341.9	343.3	346.2	346.2
5°	337.1	339.5	340.3	341.9	343.3	345.4	347.0	346.5	349.4	353.7	353.7
7.5°	339.5	341.4	344.1	345.9	347.3	351.5	353.1	352.1	354.2	359.3	359.6
10°	343.0	344.9	348.9	350.7	353.4	355.6	357.7	357.4	359.6	364.1	364.9
12.5°	351.5	352.9	358.5	361.2	361.2	363.8	362.2	359.6	360.6	363.3	363.8
15°	362.8	364.6	371.9	373.2	371.9	372.4	368.7	360.1	355.8	356.6	356.9
17.5°	375.6	378.8	387.1	385.2	383.6	379.6	370.0	357.2	344.3	339.5	340.3
20°	389.2	393.2	402.9	398.9	393.0	382.6	367.0	345.1	325.3	313.9	313.3
22.5°	405.0	410.1	419.2	412.2	399.1	381.0	357.2	330.4	305.3	287.4	286.3
25°	426.7	432.3	435.5	421.6	400.2	375.1	343.0	310.4	278.8	257.4	255.8
27.5°	451.3	454.2	447.8	426.9	395.1	362.5	325.3	285.0	250.2	232.6	230.2
30°	478.5	476.1	456.1	424.3	382.0	342.7	297.8	252.6	224.8	210.7	208.5
32.5°	510.1	502.6	462.5	416.8	364.6	316.8	267.9	232.0	209.9	195.7	194.6
35°	561.9	540.5	472.9	405.3	341.7	286.3	240.3	214.4	197.0	179.4	176.7
37.5°	637.1	596.7	488.2	394.6	316.8	256.9	219.5	200.2	185.0	165.2	161.5
40°	715.1	662.7	513.3	382.8	293.5	235.3	208.0	194.4	179.4	160.7	155.6
42.5°	786.5	725.5	542.7	368.1	269.2	217.9	202.4	192.7	177.8	160.1	156.1
45°	851.2	784.6	572.9	351.3	242.5	204.0	197.8	189.8	174.6	157.7	154.5
47.5°	905.7	834.9	603.4	331.8	216.8	195.4	193.0	184.5	170.3	154.0	151.3
50°	950.9	871.0	620.7	311.2	195.7	189.0	186.1	175.4	160.9	145.7	144.1
52.5°	984.3	893.4	636.5	300.2	179.1	178.6	176.7	166.3	152.4	136.6	133.4
55°	1007.6	911.9	629.6	291.7	161.5	165.5	164.4	158.0	146.2	127.8	125.1
57.5°	1008.9	913.5	614.6	240.9	144.1	149.7	151.6	152.6	139.5	123.2	120.0
60°	1007.6	901.7	586.8	176.7	127.3	133.9	140.9	140.9	131.8	115.8	113.3
62.5°	1001.4	878.5	522.1	125.9	113.9	122.7	131.8	127.8	120.0	107.2	104.8
65°	973.4	839.7	408.5	102.7	108.3	116.3	120.6	115.0	105.1	91.7	90.6
67.5°	922.3	750.9	236.3	94.1	103.5	110.7	114.2	105.6	96.2	83.4	82.9
69°	866.2	661.1	133.1	92.0	100.5	106.9	109.9	100.5	91.4	79.1	76.7
70°	815.9	580.9	86.6	90.1	97.6	104.5	106.7	97.0	88.5	75.9	74.3
72.5°	618.1	349.9	58.3	82.3	89.6	94.9	98.1	89.0	79.4	66.8	63.6
75°	337.6	95.2	51.3	70.6	79.7	86.9	87.7	76.2	62.3	49.5	48.1
77.5°	65.8	32.6	44.1	58.3	63.4	71.9	71.4	63.6	54.0	42.0	40.4
80°	24.9	23.5	36.9	41.7	44.6	53.7	56.9	51.3	44.9	28.6	24.6
82.5°	16.8	17.4	27.5	24.6	27.3	31.8	40.1	39.0	35.6	19.5	17.4
85°	11.8	13.6	15.2	10.4	13.4	20.1	26.5	25.7	21.9	13.6	12.3
87.5°	3.5	3.7	4.3	5.3	8.3	15.0	21.7	17.9	12.0	10.2	8.8
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)