

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: P507427

Luminaire Tested: **VERD-S-CA1-20-722-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-20-722-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 430mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2871 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.4  
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: 24 FT

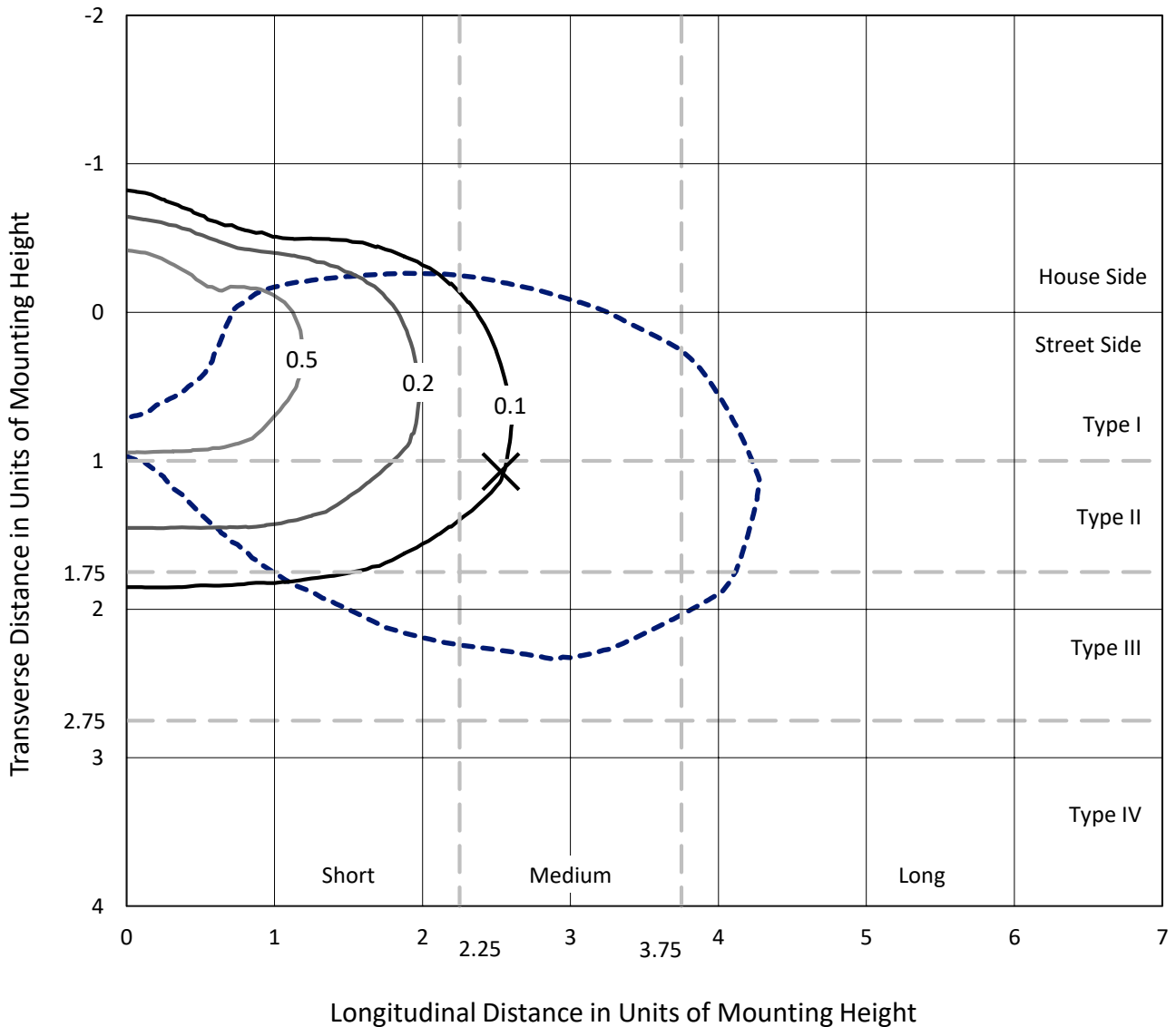


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### Iso-Footcandle Lines of Horizontal Illumination

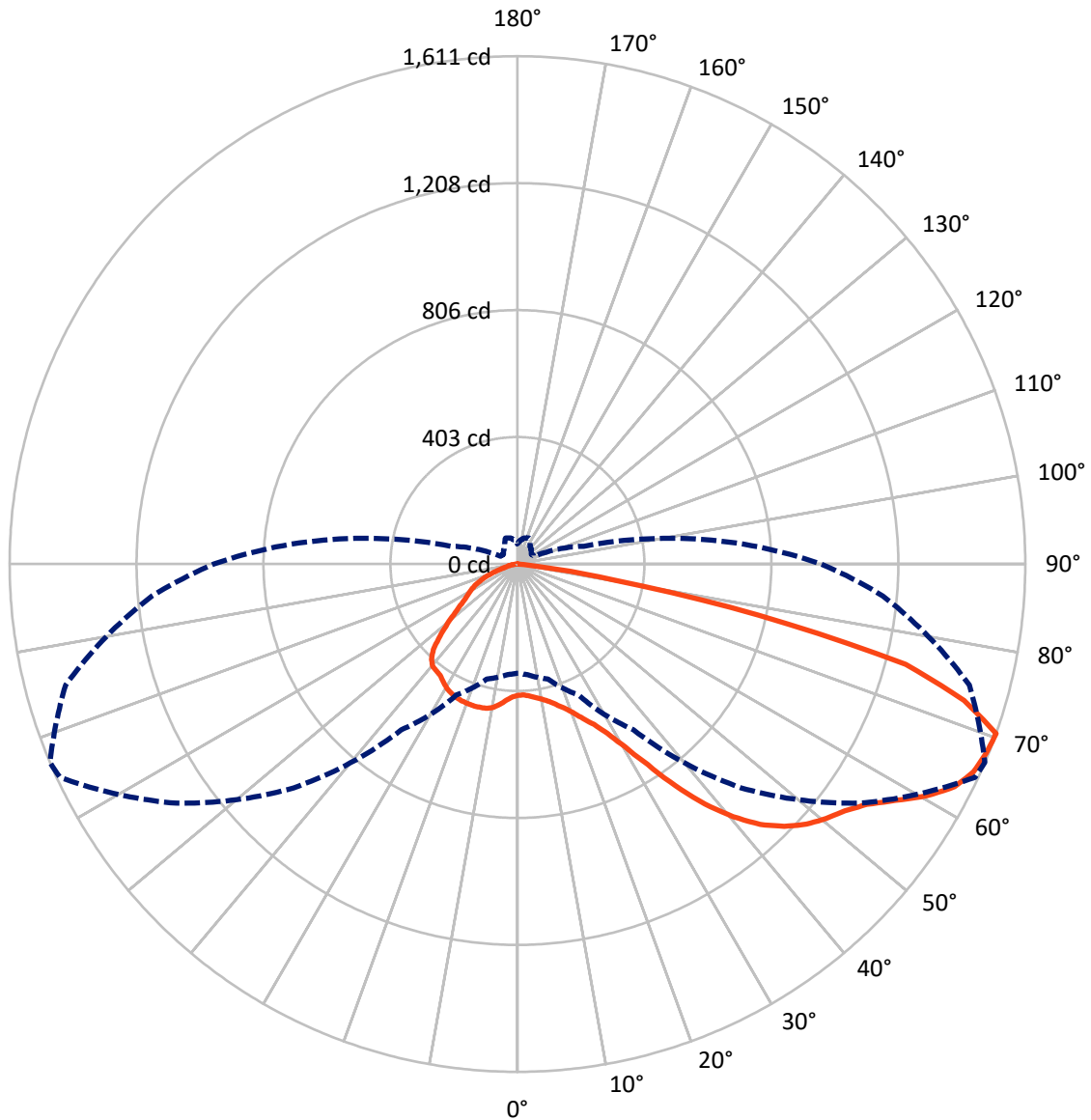
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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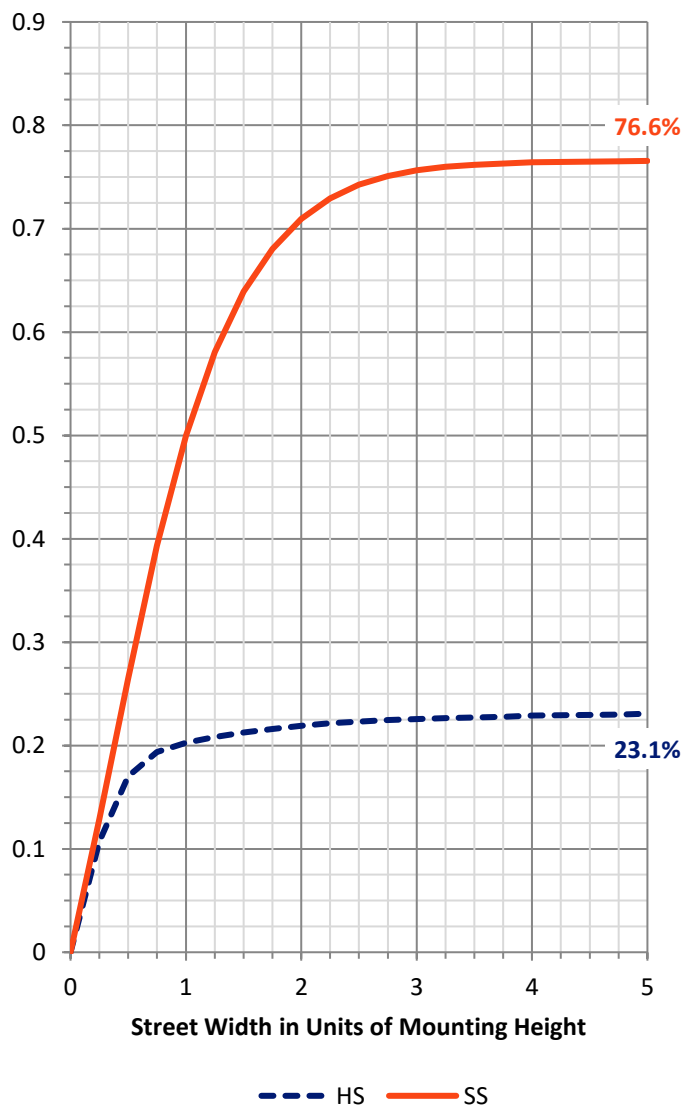
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	671.7	0.0	671.7
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	2199.3	0.0	2199.3
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2871.0	0.0	2871.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.3	1.5
10°-20°	136.1	4.7
20°-30°	240.0	8.4
30°-40°	367.9	12.8
40°-50°	501.5	17.5
50°-60°	593.4	20.7
60°-70°	618.7	21.5
70°-80°	346.1	12.1
80°-90°	25.0	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°	2871.0	100.0
0°-180°	2871.0	100.0

**Coefficient of Utilization**



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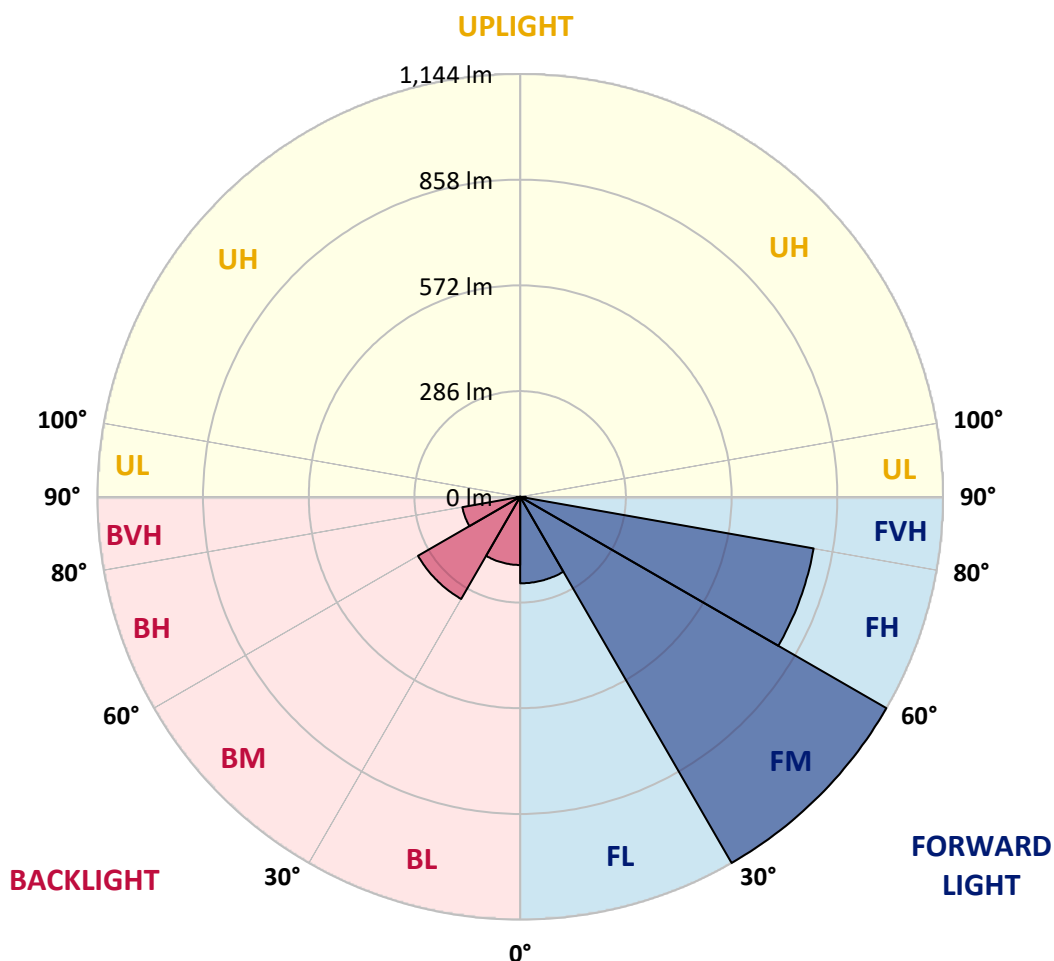
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	234.0	8.2			
FM (30°-60°)	1143.8	39.8			
FH (60°-80°)	806.1	28.1			G1/1800
FVH (80°-90°)	15.3	0.5			G1/100
BL (0°-30°)	184.4	6.4	B1/500		
BM (30°-60°)	319.0	11.1	B1/1000		
BH (60°-80°)	158.6	5.5	B1/500		G1/500
BVH (80°-90°)	9.7	0.3			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°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	418.1	418.1	418.1	417.3	417.3	417.3	416.4	415.6	415.6	416.4	416.4
5°	428.7	428.7	427.9	427.0	425.4	423.8	422.1	421.3	421.3	421.3	422.1
7.5°	443.3	442.5	440.9	440.1	437.6	435.2	431.9	428.7	428.7	427.0	428.7
10°	461.3	461.3	458.8	457.2	453.9	447.4	442.5	437.6	436.8	435.2	437.6
12.5°	484.1	484.1	482.5	478.4	473.5	465.3	456.4	448.2	447.4	445.0	449.9
15°	511.8	509.3	508.5	505.3	496.3	485.7	473.5	462.9	462.9	458.8	464.5
17.5°	542.8	541.9	541.1	537.1	526.5	511.0	494.7	482.5	480.0	477.6	480.8
20°	580.2	579.4	578.6	572.1	559.9	541.1	521.6	505.3	503.6	501.2	498.8
22.5°	623.4	623.4	620.2	615.3	598.2	576.2	552.5	532.2	532.2	529.7	518.3
25°	665.0	663.4	661.7	656.0	642.2	618.6	590.8	567.2	563.9	563.9	544.4
27.5°	703.3	703.3	705.8	702.5	688.6	664.2	636.5	609.6	608.0	604.7	574.5
30°	743.2	744.9	745.7	745.7	739.2	720.4	690.3	669.9	673.2	665.0	619.4
32.5°	773.4	775.0	785.6	795.4	789.7	779.1	762.0	755.5	758.7	765.2	715.5
35°	801.9	804.4	819.0	839.4	848.4	843.5	845.9	857.3	864.7	890.7	847.6
37.5°	823.1	825.6	838.6	863.9	890.7	904.6	927.4	952.7	966.5	1000.0	938.0
40°	828.8	832.9	859.8	894.0	934.8	976.3	1004.0	1036.6	1053.7	1069.2	999.1
42.5°	809.3	813.3	848.4	920.1	977.1	1040.7	1070.9	1115.7	1129.5	1120.6	1046.4
45°	797.0	799.5	835.3	917.6	1013.8	1102.6	1132.0	1179.2	1187.4	1165.4	1087.2
47.5°	779.9	782.4	820.7	913.6	1043.1	1156.4	1176.8	1223.2	1233.8	1202.9	1118.1
50°	754.6	757.9	801.9	906.2	1062.7	1193.1	1215.1	1263.2	1268.9	1236.3	1150.7
52.5°	724.5	729.4	775.8	890.7	1075.7	1216.7	1245.3	1295.0	1300.7	1279.5	1185.8
55°	687.8	692.7	742.4	867.9	1071.7	1224.1	1258.3	1335.7	1345.5	1328.4	1215.9
57.5°	652.0	655.2	706.6	834.5	1048.8	1235.5	1297.4	1401.7	1414.8	1378.9	1240.4
60°	608.8	616.1	665.8	788.9	1013.8	1246.9	1347.9	1480.8	1493.0	1427.8	1259.1
62.5°	563.9	570.5	614.5	731.8	959.2	1236.3	1386.2	1549.2	1556.6	1466.9	1265.6
65°	511.8	512.6	553.4	659.3	881.0	1193.1	1389.5	1582.6	1590.0	1491.4	1254.2
67.5°	442.5	442.5	476.7	567.2	775.8	1114.9	1360.2	1593.2	1603.8	1507.7	1226.5
70°	346.4	352.1	378.1	458.8	642.2	1004.0	1322.7	1601.4	1611.2	1484.0	1163.8
72.5°	242.0	240.4	267.3	316.2	464.5	801.1	1180.1	1481.6	1481.6	1363.4	1048.8
75°	74.2	83.1	95.3	127.9	211.9	537.1	966.5	1255.8	1272.1	1180.9	864.7
77.5°	24.4	24.4	28.5	35.0	45.6	114.1	483.3	769.3	782.4	768.5	535.4
80°	19.6	19.6	22.0	25.3	29.3	58.7	170.3	288.5	309.7	341.5	221.7
82.5°	13.9	13.9	14.7	15.5	14.7	23.6	44.8	76.6	78.2	84.8	71.7
85°	9.0	8.1	8.1	7.3	6.5	6.5	5.7	5.7	6.5	6.5	8.1
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4
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°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	417.3	418.1	420.5	422.1	423.8	425.4	426.2	427.0	427.0	427.9	427.9
5°	423.0	424.6	428.7	432.7	439.3	445.8	451.5	454.7	455.6	458.8	458.8
7.5°	430.3	432.7	442.5	449.9	459.6	467.0	473.5	476.7	480.0	481.6	481.6
10°	441.7	445.0	454.7	462.9	471.0	476.7	480.8	483.3	484.1	484.9	484.9
12.5°	453.1	457.2	462.9	469.4	474.3	477.6	480.0	480.8	480.8	480.8	480.8
15°	465.3	467.0	468.6	470.2	472.7	473.5	473.5	472.7	471.0	470.2	470.2
17.5°	477.6	475.9	473.5	470.2	467.0	464.5	461.3	458.0	455.6	453.9	454.7
20°	492.2	487.3	476.7	468.6	459.6	450.7	443.3	436.8	431.9	431.1	431.9
22.5°	509.3	499.6	482.5	465.3	449.9	433.6	418.1	409.1	404.2	400.1	400.1
25°	529.7	514.2	487.3	460.5	436.0	409.9	388.7	374.9	366.7	361.8	363.5
27.5°	553.4	533.8	492.2	453.1	415.6	381.4	353.7	331.7	322.7	316.2	317.0
30°	587.6	556.6	497.9	442.5	389.5	346.4	309.7	283.6	268.1	263.2	264.9
32.5°	664.2	605.5	504.5	427.0	360.2	304.8	255.9	224.1	207.8	207.8	207.0
35°	792.1	707.4	519.9	408.3	327.6	258.3	195.6	166.3	165.4	168.7	169.5
37.5°	881.8	801.1	568.0	390.4	291.8	202.1	145.1	136.9	145.1	148.3	147.5
40°	939.6	857.3	623.4	371.6	241.2	145.1	114.9	109.2	117.4	123.9	128.8
42.5°	986.9	896.5	648.7	347.2	180.1	104.3	84.8	83.1	95.3	104.3	107.6
45°	1024.4	932.3	652.0	312.9	122.2	77.4	69.3	76.6	91.3	98.6	99.4
47.5°	1054.6	961.6	643.0	258.3	81.5	67.6	67.6	77.4	91.3	98.6	98.6
50°	1083.9	986.1	620.2	210.3	73.3	66.0	68.5	78.2	90.5	96.2	96.2
52.5°	1108.3	1002.4	580.2	167.9	70.9	64.4	68.5	78.2	88.8	91.3	89.6
55°	1130.3	1008.9	544.4	135.3	68.5	63.6	70.1	79.9	88.0	88.0	84.8
57.5°	1142.6	993.4	517.5	111.6	66.0	63.6	70.9	81.5	90.5	92.1	89.6
60°	1142.6	971.4	488.2	98.6	64.4	63.6	70.9	87.2	107.6	99.4	98.6
62.5°	1127.1	947.8	444.2	88.0	61.9	64.4	71.7	97.0	131.2	98.6	94.5
65°	1100.2	902.2	386.3	78.2	59.5	65.2	70.9	111.6	156.5	95.3	83.9
67.5°	1049.7	829.6	314.6	68.5	56.2	63.6	69.3	102.7	96.2	79.1	70.9
70°	962.5	721.2	218.4	59.5	53.8	61.9	69.3	90.5	85.6	72.5	63.6
72.5°	832.9	591.7	117.4	48.9	47.3	58.7	67.6	83.1	73.3	59.5	53.8
75°	639.7	420.5	71.7	38.3	39.1	52.2	62.8	79.1	70.1	57.0	49.7
77.5°	369.2	194.8	51.3	28.5	27.7	41.6	56.2	73.3	68.5	55.4	48.1
80°	135.3	80.7	35.0	21.2	18.7	30.2	44.0	59.5	65.2	54.6	48.9
82.5°	57.9	43.2	22.8	14.7	13.9	17.1	26.9	41.6	54.6	44.0	40.7
85°	8.1	8.1	8.1	7.3	8.1	10.6	11.4	20.4	30.2	16.3	16.3
87.5°	3.3	3.3	3.3	3.3	4.1	4.1	3.3	3.3	2.4	2.4	2.4
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)