

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: P507437

Luminaire Tested: **VERD-S-CA1-20-727-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-727-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 430mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2971 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
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

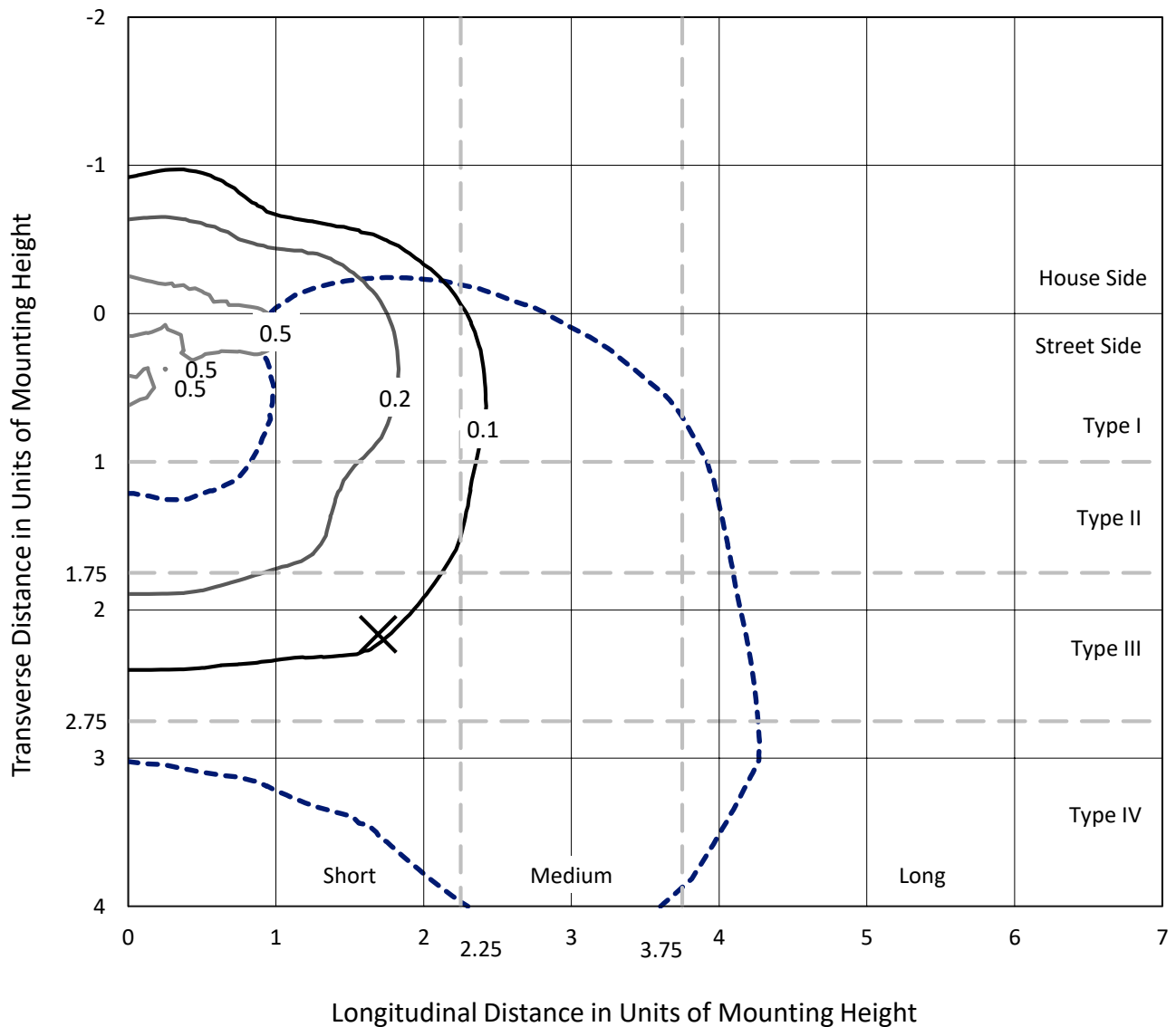


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Iso-Footcandle Lines of Horizontal Illumination

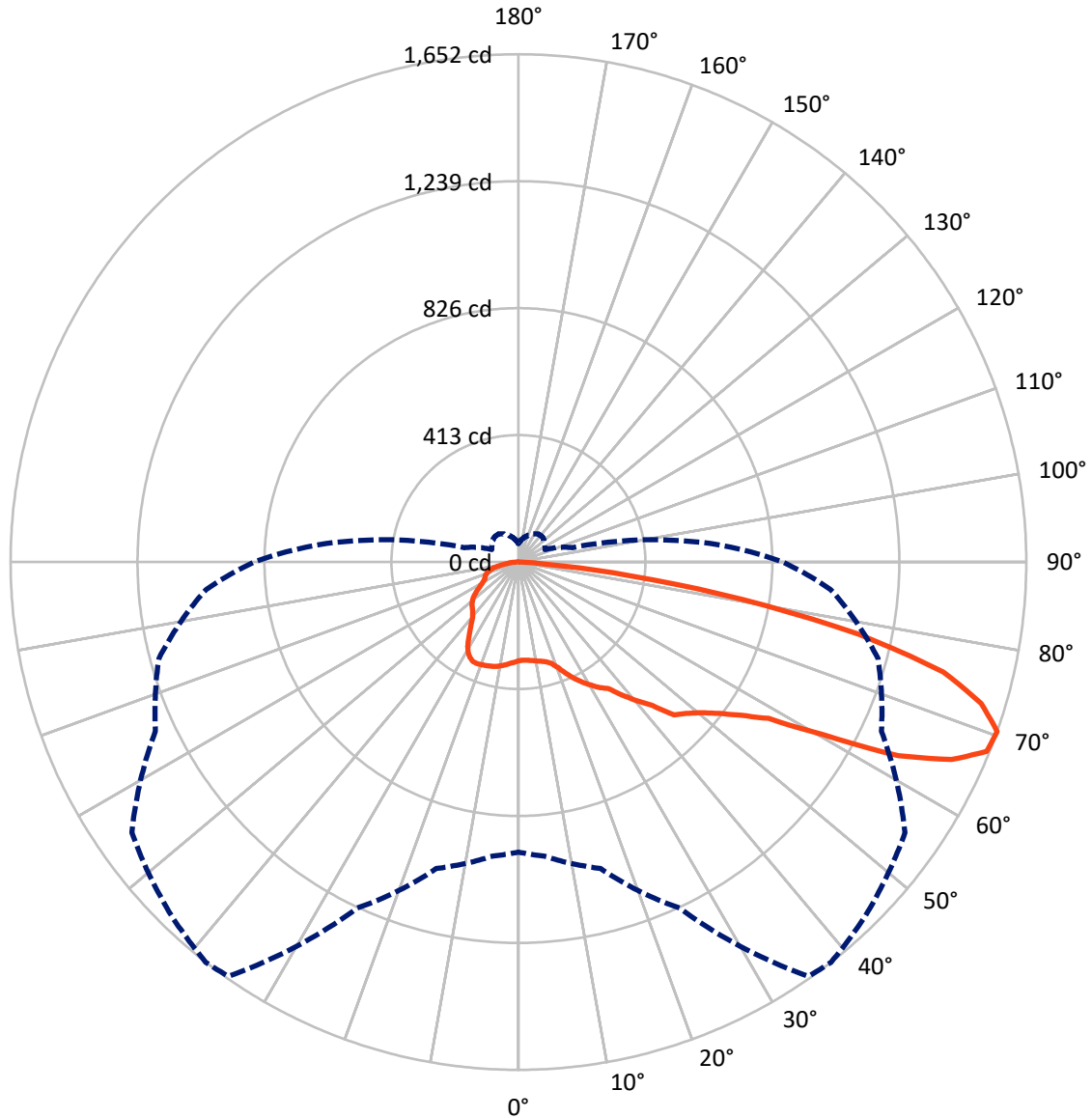
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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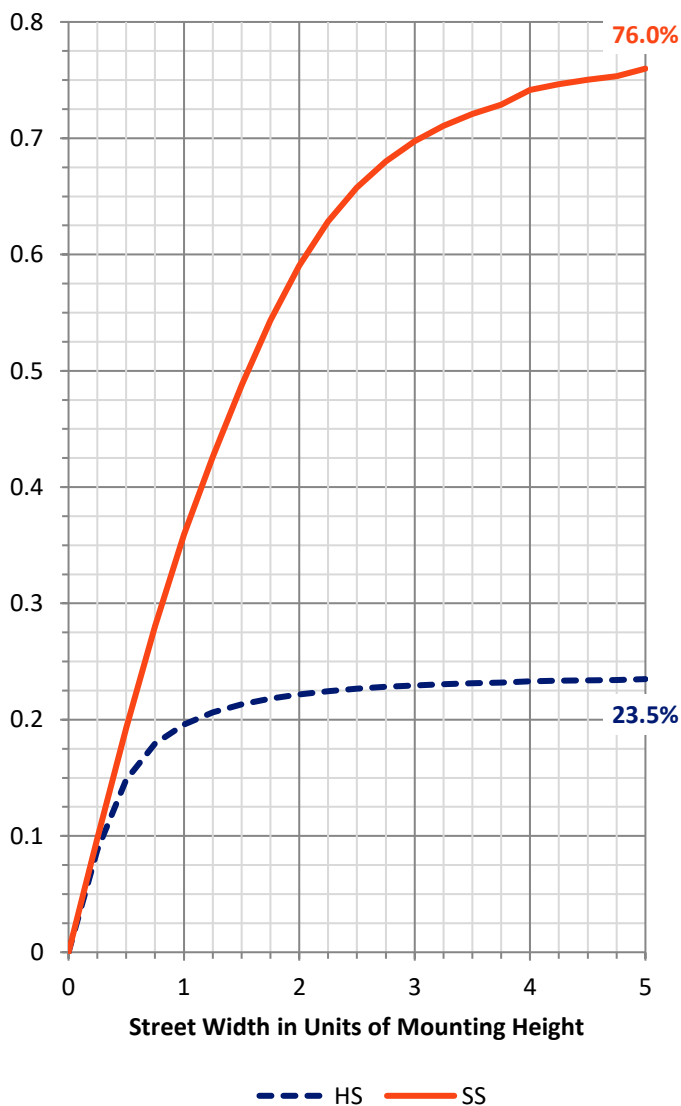
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.6	0.0	705.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2265.4	0.0	2265.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	2971.0	0.0	2971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	1.1
10°-20°	98.6	3.3
20°-30°	183.0	6.2
30°-40°	283.3	9.5
40°-50°	419.9	14.1
50°-60°	585.0	19.7
60°-70°	751.3	25.3
70°-80°	549.7	18.5
80°-90°	68.9	2.3
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°	2971.0	100.0
0°-180°	2971.0	100.0

Coefficient of Utilization



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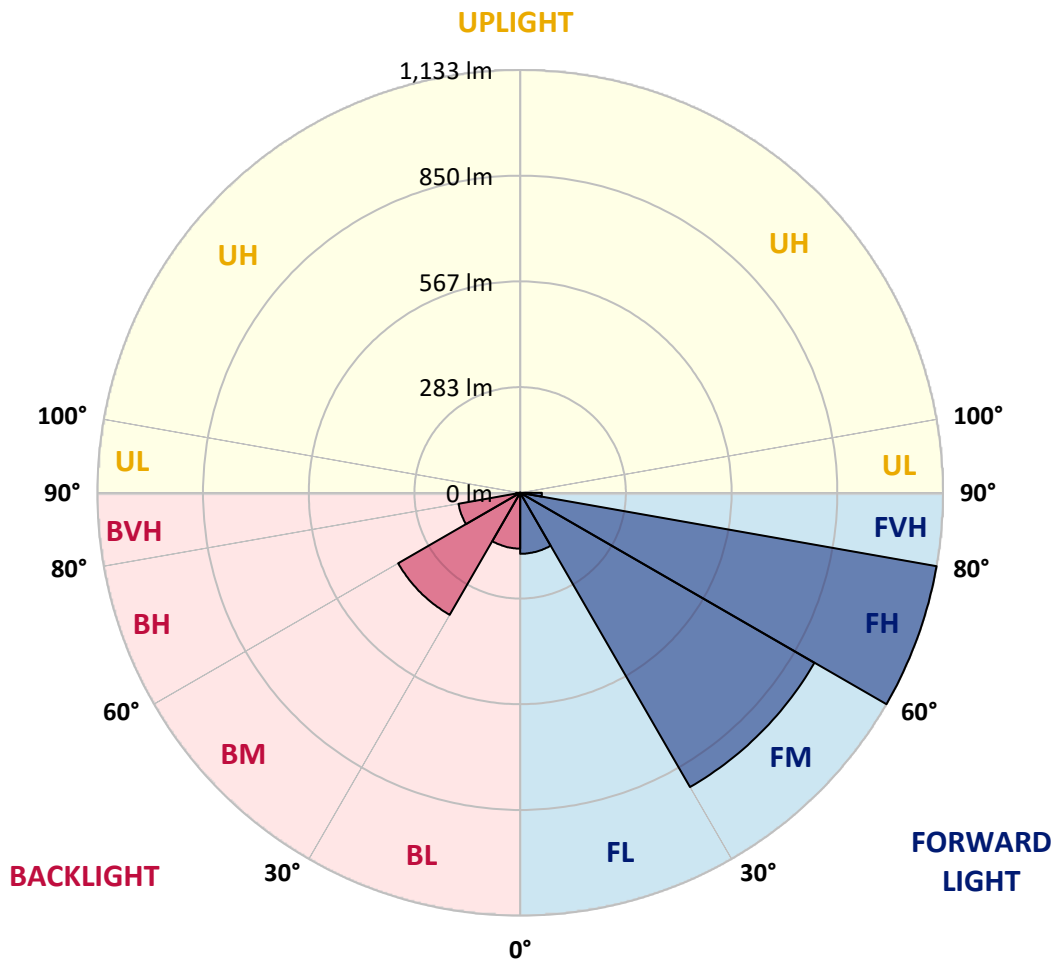
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.5	5.5			
FM	(30°-60°)	910.5	30.6			
FH	(60°-80°)	1133.2	38.1			G1/1800
FVH	(80°-90°)	58.2	2.0			G1/100
BL	(0°-30°)	149.5	5.0	B1/500		
BM	(30°-60°)	377.7	12.7	B1/1000		
BH	(60°-80°)	167.8	5.6	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°	38°	45°	55°	65°	75°	85°
0°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	320.2	320.2	320.2	319.3	319.3	319.3	318.5	318.5	319.3	320.2	320.2
5°	322.7	322.7	321.9	321.9	321.0	321.0	321.0	320.2	320.2	320.2	321.9
7.5°	323.6	323.6	323.6	323.6	323.6	323.6	324.4	323.6	323.6	323.6	325.3
10°	323.6	323.6	324.4	324.4	326.1	327.0	327.8	329.5	329.5	329.5	330.3
12.5°	325.3	325.3	326.1	327.0	329.5	331.2	332.9	335.4	336.3	336.3	337.1
15°	328.7	328.7	329.5	332.0	335.4	336.3	338.8	342.2	345.6	346.4	347.3
17.5°	342.2	342.2	342.2	342.2	345.6	346.4	349.8	354.9	358.3	360.0	362.5
20°	369.3	370.2	368.5	367.6	365.9	365.9	365.9	368.5	372.7	378.6	382.9
22.5°	404.0	404.0	404.0	397.3	393.0	392.2	392.2	391.3	394.7	400.6	406.6
25°	431.1	432.0	431.1	425.2	420.1	418.4	418.4	421.0	421.0	426.1	432.8
27.5°	453.2	454.9	452.3	447.2	443.0	442.2	443.0	450.6	454.9	458.2	466.7
30°	476.9	477.7	471.8	468.4	465.9	464.2	465.0	476.0	490.4	494.7	509.1
32.5°	520.9	520.9	512.5	493.0	486.2	487.0	487.0	501.4	520.9	540.4	559.0
35°	562.4	561.6	554.0	537.0	511.6	505.7	509.1	524.3	554.8	587.8	620.9
37.5°	611.6	609.9	603.1	579.4	558.2	548.9	530.2	550.6	587.8	653.1	686.9
40°	666.6	664.1	648.8	625.1	597.2	592.9	576.8	580.2	629.4	721.7	760.6
42.5°	697.1	695.4	685.3	665.8	645.4	637.0	623.4	619.2	685.3	810.6	830.1
45°	725.9	729.3	729.3	720.0	711.5	709.8	700.5	703.9	757.3	883.5	891.1
47.5°	743.7	747.1	736.1	734.4	734.4	735.2	744.5	767.4	822.5	952.1	944.4
50°	797.1	794.5	750.5	757.3	764.9	770.0	790.3	826.7	913.1	1013.9	991.0
52.5°	893.6	870.8	818.2	803.0	807.2	817.4	844.5	891.9	1005.4	1069.0	1031.7
55°	1013.1	999.5	952.1	884.3	862.3	879.2	908.0	956.3	1076.6	1120.6	1063.9
57.5°	1093.5	1098.6	1104.5	1058.0	955.5	959.7	979.2	1019.8	1147.7	1170.6	1089.3
60°	1174.8	1180.8	1213.8	1201.9	1178.2	1139.3	1068.1	1087.6	1201.1	1203.6	1107.9
62.5°	1239.2	1243.5	1292.6	1319.7	1381.5	1386.6	1275.6	1173.2	1257.0	1229.9	1115.6
65°	1207.0	1214.7	1288.3	1363.7	1534.0	1548.4	1512.0	1283.3	1300.2	1240.1	1109.6
67.5°	1098.6	1109.6	1187.5	1347.6	1631.4	1642.4	1606.8	1490.8	1315.5	1235.8	1080.8
70°	943.6	959.7	1031.7	1241.8	1645.0	1651.7	1607.7	1534.8	1302.7	1210.4	1019.0
72.5°	767.4	780.1	853.0	1064.7	1562.8	1573.8	1560.2	1498.4	1275.6	1161.3	894.5
75°	587.8	588.7	665.8	834.3	1383.2	1427.3	1450.1	1428.1	1201.9	1021.5	688.6
77.5°	371.0	382.0	460.8	631.9	1086.8	1131.6	1141.8	1114.7	841.1	626.8	296.5
80°	166.9	183.8	264.3	426.9	739.5	737.8	743.7	676.8	448.1	199.1	33.0
82.5°	60.1	63.5	111.0	214.3	358.3	367.6	363.4	312.6	121.1	28.0	20.3
85°	25.4	27.1	36.4	57.6	81.3	86.4	74.5	56.8	19.5	16.1	13.6
87.5°	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	3.4	4.2
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°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	320.2	321.0	321.9	323.6	323.6	324.4	325.3	326.1	326.1	326.1	326.1
5°	322.7	323.6	324.4	327.0	328.7	329.5	331.2	332.0	332.9	332.9	332.9
7.5°	326.1	327.0	328.7	331.2	333.7	335.4	337.1	338.0	338.8	338.8	338.8
10°	331.2	332.9	335.4	338.8	341.4	341.4	342.2	343.1	343.9	343.9	343.9
12.5°	338.0	339.7	343.9	348.1	349.0	348.1	346.4	346.4	345.6	344.7	344.7
15°	349.0	349.8	355.8	359.1	356.6	352.4	349.0	345.6	343.1	341.4	341.4
17.5°	364.2	366.8	372.7	372.7	365.9	358.3	349.8	341.4	334.6	332.0	331.2
20°	386.3	389.6	394.7	389.6	378.6	365.1	349.8	336.3	322.7	314.3	311.7
22.5°	410.8	415.0	416.7	405.7	389.6	371.0	350.7	329.5	307.5	288.8	283.8
25°	439.6	442.2	436.2	418.4	396.4	372.7	348.1	320.2	286.3	261.7	259.2
27.5°	473.5	471.0	454.9	427.8	398.1	369.3	338.8	301.5	259.2	240.6	238.0
30°	509.9	500.6	471.0	432.8	393.0	359.1	322.7	273.6	238.9	223.6	221.9
32.5°	553.1	534.5	486.2	433.7	383.7	341.4	296.5	250.7	225.3	208.4	206.7
35°	601.4	572.6	499.8	428.6	365.1	316.8	265.1	233.8	210.9	194.8	191.4
37.5°	666.6	624.3	516.7	417.6	341.4	285.5	242.3	216.0	196.5	178.7	176.2
40°	733.5	683.6	540.4	404.9	315.1	260.0	222.8	203.3	186.3	166.0	161.8
42.5°	800.5	742.9	572.6	389.6	288.8	240.6	214.3	201.6	181.3	160.1	155.9
45°	855.5	793.7	603.1	371.9	262.6	222.8	209.2	198.2	177.9	155.0	149.9
47.5°	902.9	836.0	629.4	355.8	237.2	209.2	205.0	192.3	172.8	149.9	144.8
50°	942.8	869.9	650.5	342.2	216.0	199.9	196.5	181.3	160.9	141.5	138.1
52.5°	977.5	894.5	659.8	338.0	194.8	188.9	183.0	167.7	149.1	131.3	126.2
55°	1000.4	913.1	658.1	338.0	174.5	173.6	166.9	155.0	141.5	127.1	122.0
57.5°	1018.1	921.6	645.4	288.8	157.5	154.2	149.9	144.8	136.4	120.3	115.2
60°	1026.6	916.5	618.3	210.1	140.6	134.7	138.1	136.4	127.9	105.9	102.5
62.5°	1021.5	901.3	557.4	153.3	122.8	122.0	127.1	123.7	107.6	88.1	86.4
65°	1002.0	863.1	479.4	115.2	112.7	118.6	121.1	114.4	99.1	81.3	74.5
67.5°	952.1	789.4	349.0	103.3	109.3	116.0	117.7	108.4	93.2	76.2	67.8
70°	859.7	650.5	181.3	95.7	104.2	112.7	111.8	100.0	84.7	69.5	59.3
72.5°	697.1	461.6	68.6	85.6	96.6	105.0	103.3	89.8	60.1	43.2	39.0
75°	452.3	221.1	59.3	73.7	86.4	94.0	94.9	81.3	52.5	36.4	31.3
77.5°	155.0	40.7	48.3	61.0	74.5	84.7	82.2	65.2	40.7	27.1	24.6
80°	26.3	27.1	37.3	43.2	51.7	67.8	57.6	46.6	32.2	19.5	16.1
82.5°	18.6	22.9	26.3	25.4	35.6	44.9	39.0	31.3	21.2	15.2	13.6
85°	13.6	15.2	14.4	15.2	20.3	29.6	27.1	22.0	15.2	11.0	9.3
87.5°	5.1	5.1	6.8	8.5	12.7	18.6	16.1	6.8	5.9	5.1	5.1
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)