

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: P507443

Luminaire Tested: **VERD-S-CA1-20-730-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507443
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-CA1-20-730-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 430mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3459 lumens
Efficiency: N/A
Efficacy: 147.8 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

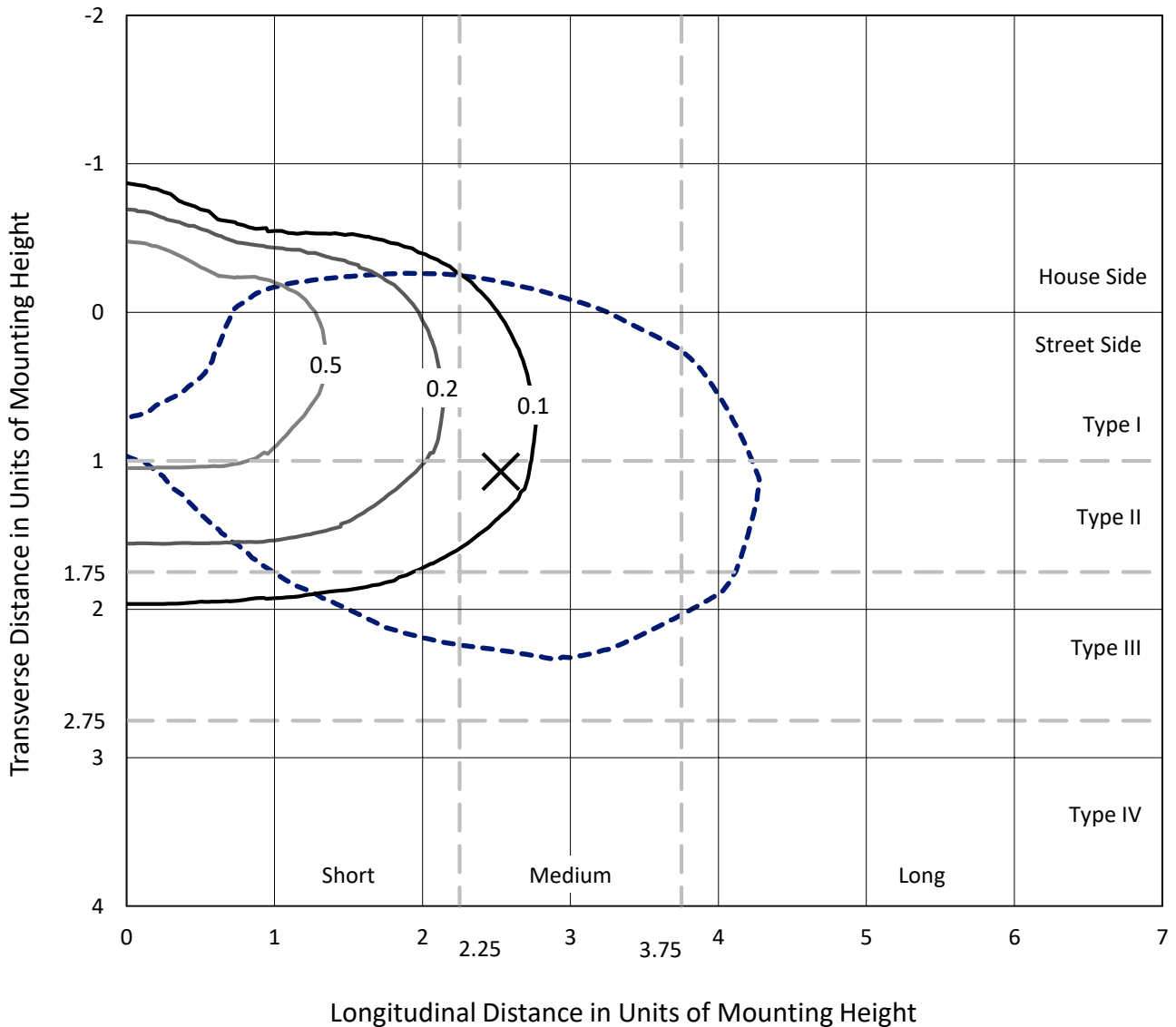
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

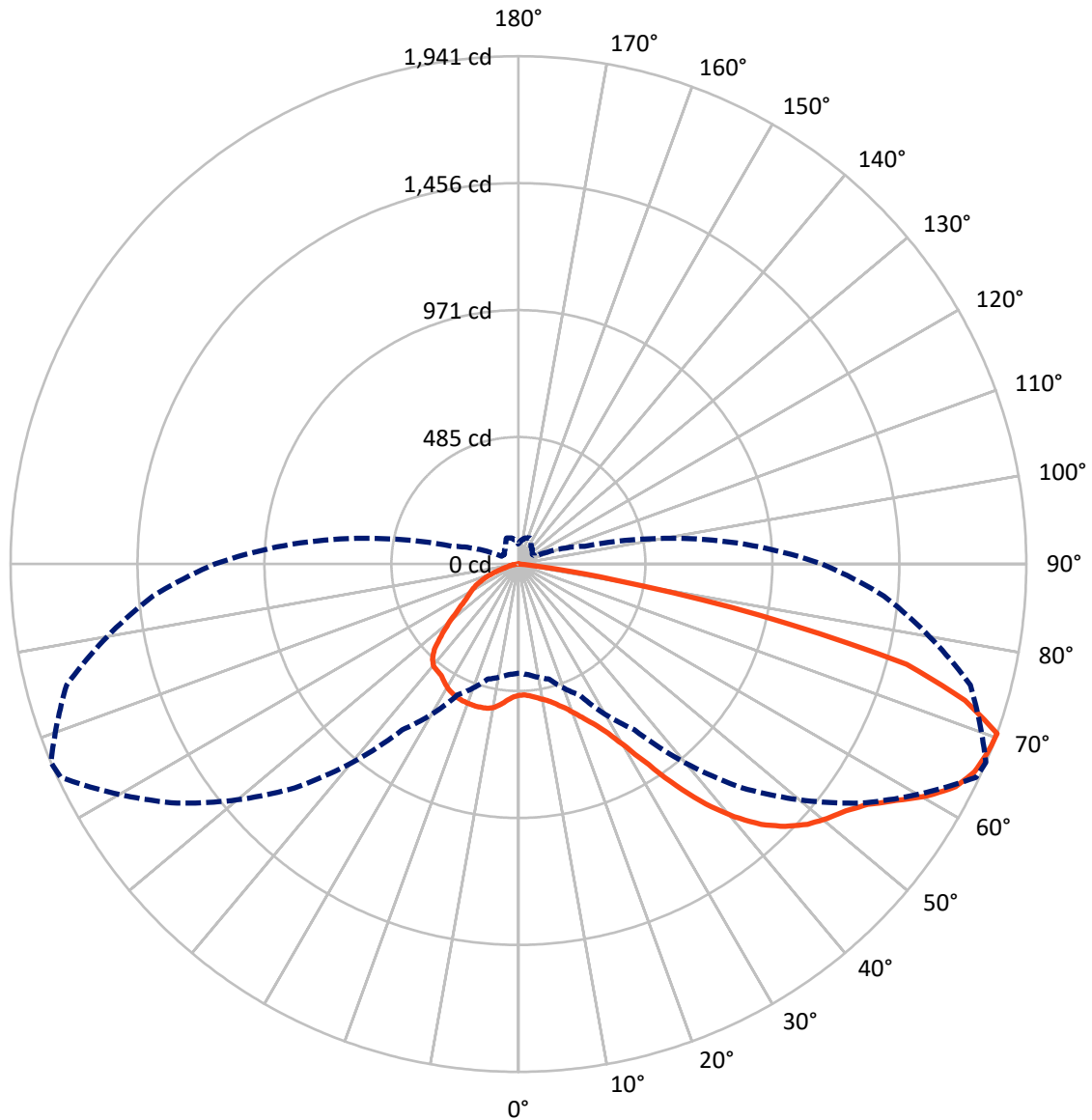
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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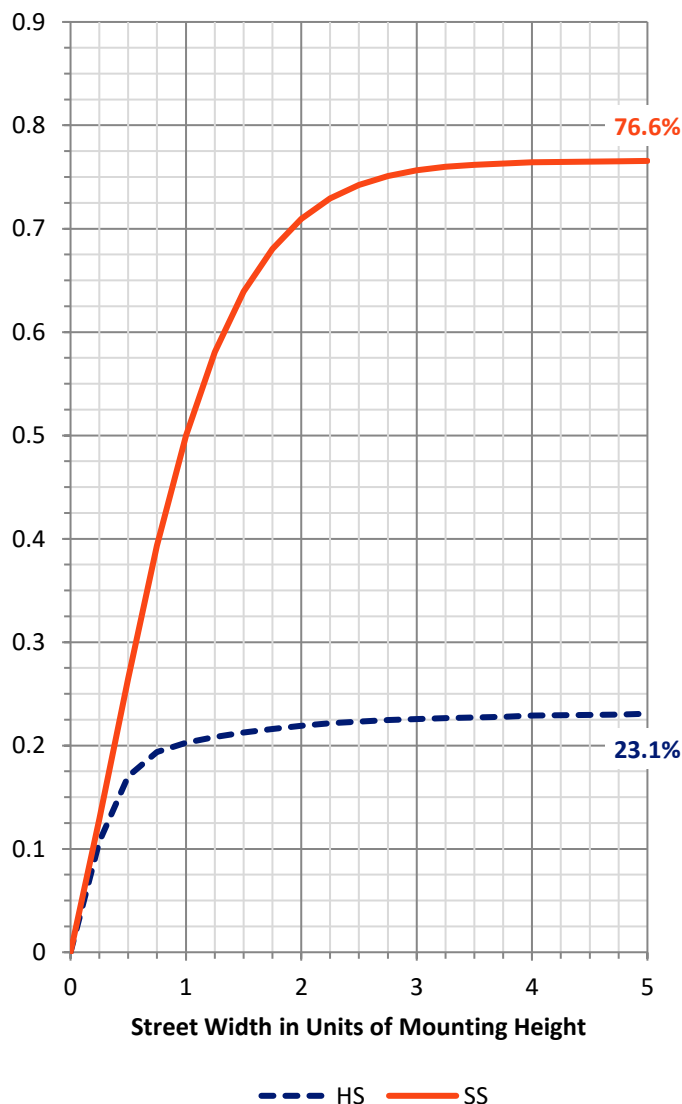
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.3	0.0	809.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	2649.7	0.0	2649.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	3459.0	0.0	3459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	1.5
10°-20°	164.0	4.7
20°-30°	289.2	8.4
30°-40°	443.3	12.8
40°-50°	604.2	17.5
50°-60°	715.0	20.7
60°-70°	745.4	21.5
70°-80°	417.0	12.1
80°-90°	30.2	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°	3459.0	100.0
0°-180°	3459.0	100.0

Coefficient of Utilization



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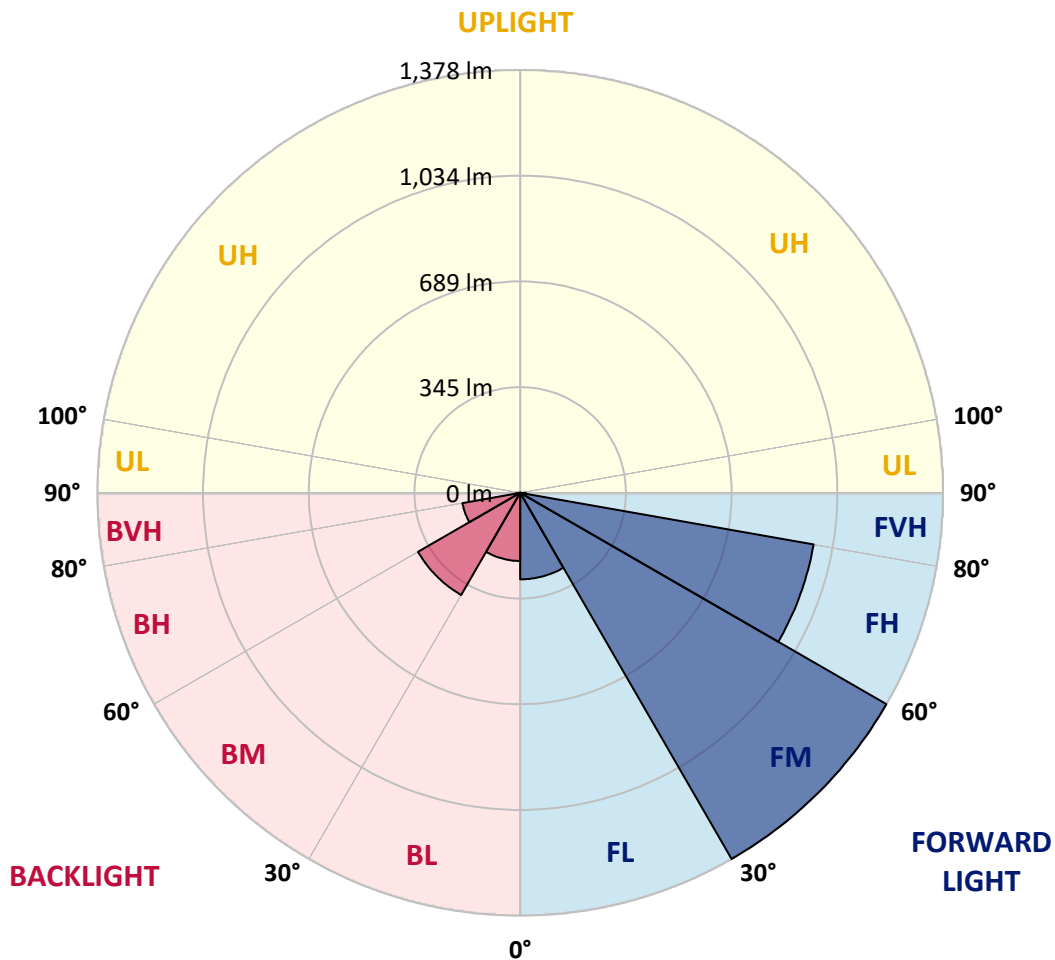
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.9	8.2			
FM (30°-60°)	1378.1	39.8			
FH (60°-80°)	971.2	28.1			G1/1800
FVH (80°-90°)	18.5	0.5			G1/100
BL (0°-30°)	222.2	6.4	B1/500		
BM (30°-60°)	384.4	11.1	B1/1000		
BH (60°-80°)	191.1	5.5	B1/500		G1/500
BVH (80°-90°)	11.7	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
2.5°	503.7	503.7	503.7	502.7	502.7	502.7	501.7	500.8	500.8	501.7	501.7
5°	516.5	516.5	515.5	514.5	512.5	510.6	508.6	507.6	507.6	507.6	508.6
7.5°	534.1	533.2	531.2	530.2	527.3	524.3	520.4	516.5	516.5	514.5	516.5
10°	555.7	555.7	552.8	550.8	546.9	539.0	533.2	527.3	526.3	524.3	527.3
12.5°	583.2	583.2	581.3	576.4	570.5	560.6	549.8	540.0	539.0	536.1	542.0
15°	616.6	613.7	612.7	608.8	598.0	585.2	570.5	557.7	557.7	552.8	559.7
17.5°	653.9	652.9	652.0	647.0	634.3	615.6	596.0	581.3	578.3	575.4	579.3
20°	699.1	698.1	697.1	689.3	674.5	652.0	628.4	608.8	606.8	603.8	600.9
22.5°	751.1	751.1	747.2	741.3	720.7	694.2	665.7	641.2	641.2	638.2	624.5
25°	801.2	799.2	797.3	790.4	773.7	745.2	711.9	683.4	679.5	679.5	655.9
27.5°	847.3	847.3	850.3	846.4	829.7	800.2	766.8	734.4	732.5	728.5	692.2
30°	895.5	897.4	898.4	898.4	890.6	868.0	831.6	807.1	811.0	801.2	746.2
32.5°	931.8	933.8	946.5	958.3	951.4	938.7	918.0	910.2	914.1	922.0	862.1
35°	966.2	969.1	986.8	1011.3	1022.1	1016.2	1019.2	1032.9	1041.8	1073.2	1021.1
37.5°	991.7	994.6	1010.3	1040.8	1073.2	1089.9	1117.4	1147.8	1164.5	1204.7	1130.1
40°	998.6	1003.5	1035.9	1077.1	1126.2	1176.3	1209.7	1248.9	1269.6	1288.2	1203.8
42.5°	975.0	979.9	1022.1	1108.5	1177.3	1253.8	1290.2	1344.2	1360.9	1350.1	1260.7
45°	960.3	963.2	1006.4	1105.6	1221.4	1328.5	1363.8	1420.8	1430.6	1404.1	1309.8
47.5°	939.6	942.6	988.7	1100.7	1256.8	1393.3	1417.8	1473.8	1486.5	1449.2	1347.1
50°	909.2	913.1	966.2	1091.8	1280.4	1437.4	1464.0	1521.9	1528.8	1489.5	1386.4
52.5°	872.9	878.8	934.7	1073.2	1296.1	1465.9	1500.3	1560.2	1567.1	1541.5	1428.6
55°	828.7	834.6	894.5	1045.7	1291.2	1474.8	1516.0	1609.3	1621.1	1600.4	1464.9
57.5°	785.5	789.4	851.3	1005.4	1263.7	1488.5	1563.1	1688.8	1704.5	1661.3	1494.4
60°	733.5	742.3	802.2	950.4	1221.4	1502.3	1624.0	1784.0	1798.8	1720.2	1517.0
62.5°	679.5	687.3	740.3	881.7	1155.7	1489.5	1670.2	1866.5	1875.4	1767.4	1524.8
65°	616.6	617.6	666.7	794.3	1061.4	1437.4	1674.1	1906.8	1915.6	1796.8	1511.1
67.5°	533.2	533.2	574.4	683.4	934.7	1343.2	1638.7	1919.5	1932.3	1816.4	1477.7
70°	417.3	424.2	455.6	552.8	773.7	1209.7	1593.6	1929.4	1941.1	1788.0	1402.1
72.5°	291.6	289.6	322.1	381.0	559.7	965.2	1421.7	1785.0	1785.0	1642.7	1263.7
75°	89.3	100.2	114.9	154.2	255.3	647.0	1164.5	1513.1	1532.7	1422.7	1041.8
77.5°	29.5	29.5	34.4	42.2	55.0	137.5	582.2	926.9	942.6	925.9	645.1
80°	23.6	23.6	26.5	30.4	35.3	70.7	205.2	347.6	373.1	411.4	267.1
82.5°	16.7	16.7	17.7	18.7	17.7	28.5	54.0	92.3	94.3	102.1	86.4
85°	10.8	9.8	9.8	8.8	7.9	7.9	6.9	6.9	7.9	7.9	9.8
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.9	2.9	2.9
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°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
2.5°	502.7	503.7	506.6	508.6	510.6	512.5	513.5	514.5	514.5	515.5	515.5
5°	509.6	511.6	516.5	521.4	529.2	537.1	544.0	547.9	548.9	552.8	552.8
7.5°	518.4	521.4	533.2	542.0	553.8	562.6	570.5	574.4	578.3	580.3	580.3
10°	532.2	536.1	547.9	557.7	567.5	574.4	579.3	582.2	583.2	584.2	584.2
12.5°	545.9	550.8	557.7	565.6	571.4	575.4	578.3	579.3	579.3	579.3	579.3
15°	560.6	562.6	564.6	566.5	569.5	570.5	570.5	569.5	567.5	566.5	566.5
17.5°	575.4	573.4	570.5	566.5	562.6	559.7	555.7	551.8	548.9	546.9	547.9
20°	593.0	587.2	574.4	564.6	553.8	543.0	534.1	526.3	520.4	519.4	520.4
22.5°	613.7	601.9	581.3	560.6	542.0	522.4	503.7	492.9	487.0	482.1	482.1
25°	638.2	619.6	587.2	554.8	525.3	493.9	468.3	451.7	441.8	435.9	437.9
27.5°	666.7	643.1	593.0	545.9	500.8	459.5	426.1	399.6	388.8	381.0	381.9
30°	707.9	670.6	599.9	533.2	469.3	417.3	373.1	341.7	323.0	317.1	319.1
32.5°	800.2	729.5	607.8	514.5	434.0	367.2	308.3	270.0	250.4	250.4	249.4
35°	954.4	852.3	626.4	491.9	394.7	311.3	235.6	200.3	199.3	203.2	204.2
37.5°	1062.4	965.2	684.4	470.3	351.5	243.5	174.8	165.0	174.8	178.7	177.7
40°	1132.1	1032.9	751.1	447.7	290.6	174.8	138.4	131.6	141.4	149.2	155.1
42.5°	1189.0	1080.1	781.6	418.3	217.0	125.7	102.1	100.2	114.9	125.7	129.6
45°	1234.2	1123.3	785.5	377.0	147.3	93.3	83.5	92.3	110.0	118.8	119.8
47.5°	1270.5	1158.6	774.7	311.3	98.2	81.5	81.5	93.3	110.0	118.8	118.8
50°	1305.9	1188.1	747.2	253.3	88.4	79.5	82.5	94.3	109.0	115.9	115.9
52.5°	1335.3	1207.7	699.1	202.3	85.4	77.6	82.5	94.3	107.0	110.0	108.0
55°	1361.8	1215.5	655.9	163.0	82.5	76.6	84.4	96.2	106.0	106.0	102.1
57.5°	1376.6	1196.9	623.5	134.5	79.5	76.6	85.4	98.2	109.0	111.0	108.0
60°	1376.6	1170.4	588.1	118.8	77.6	76.6	85.4	105.1	129.6	119.8	118.8
62.5°	1357.9	1141.9	535.1	106.0	74.6	77.6	86.4	116.8	158.1	118.8	113.9
65°	1325.5	1086.9	465.4	94.3	71.7	78.5	85.4	134.5	188.5	114.9	101.1
67.5°	1264.6	999.5	379.0	82.5	67.7	76.6	83.5	123.7	115.9	95.2	85.4
70°	1159.6	868.9	263.1	71.7	64.8	74.6	83.5	109.0	103.1	87.4	76.6
72.5°	1003.5	712.8	141.4	58.9	56.9	70.7	81.5	100.2	88.4	71.7	64.8
75°	770.8	506.6	86.4	46.1	47.1	62.8	75.6	95.2	84.4	68.7	59.9
77.5°	444.8	234.7	61.9	34.4	33.4	50.1	67.7	88.4	82.5	66.8	57.9
80°	163.0	97.2	42.2	25.5	22.6	36.3	53.0	71.7	78.5	65.8	58.9
82.5°	69.7	52.0	27.5	17.7	16.7	20.6	32.4	50.1	65.8	53.0	49.1
85°	9.8	9.8	9.8	8.8	9.8	12.8	13.7	24.5	36.3	19.6	19.6
87.5°	3.9	3.9	3.9	3.9	4.9	4.9	3.9	3.9	2.9	2.9	2.9
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)