

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: P507459

Luminaire Tested: **VERD-S-CA1-20-750-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507459
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-CA1-20-750-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 430mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3588 lumens
Efficiency: N/A
Efficacy: 153.3 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

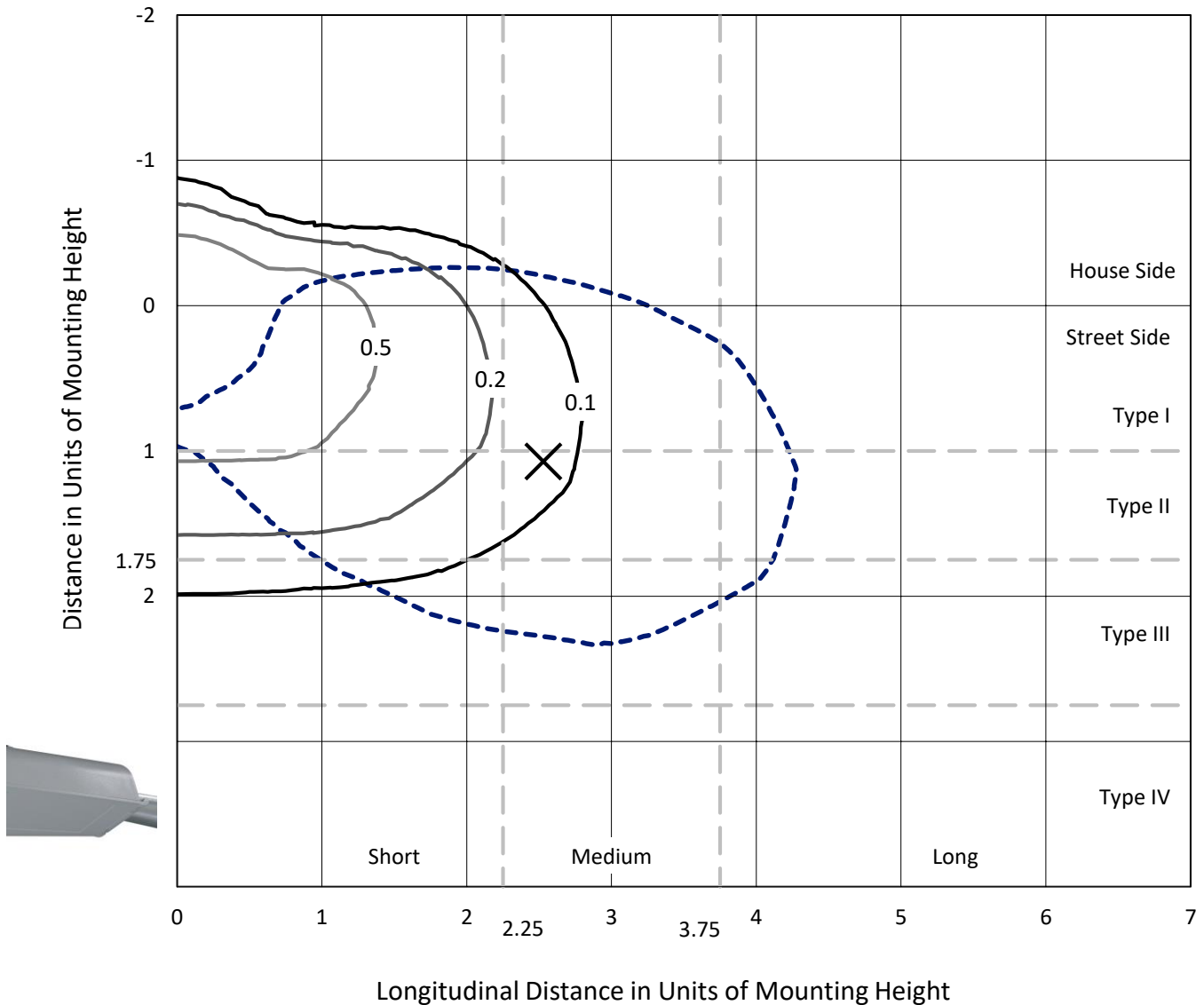


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Iso-Footcandle Lines of Horizontal Illumination

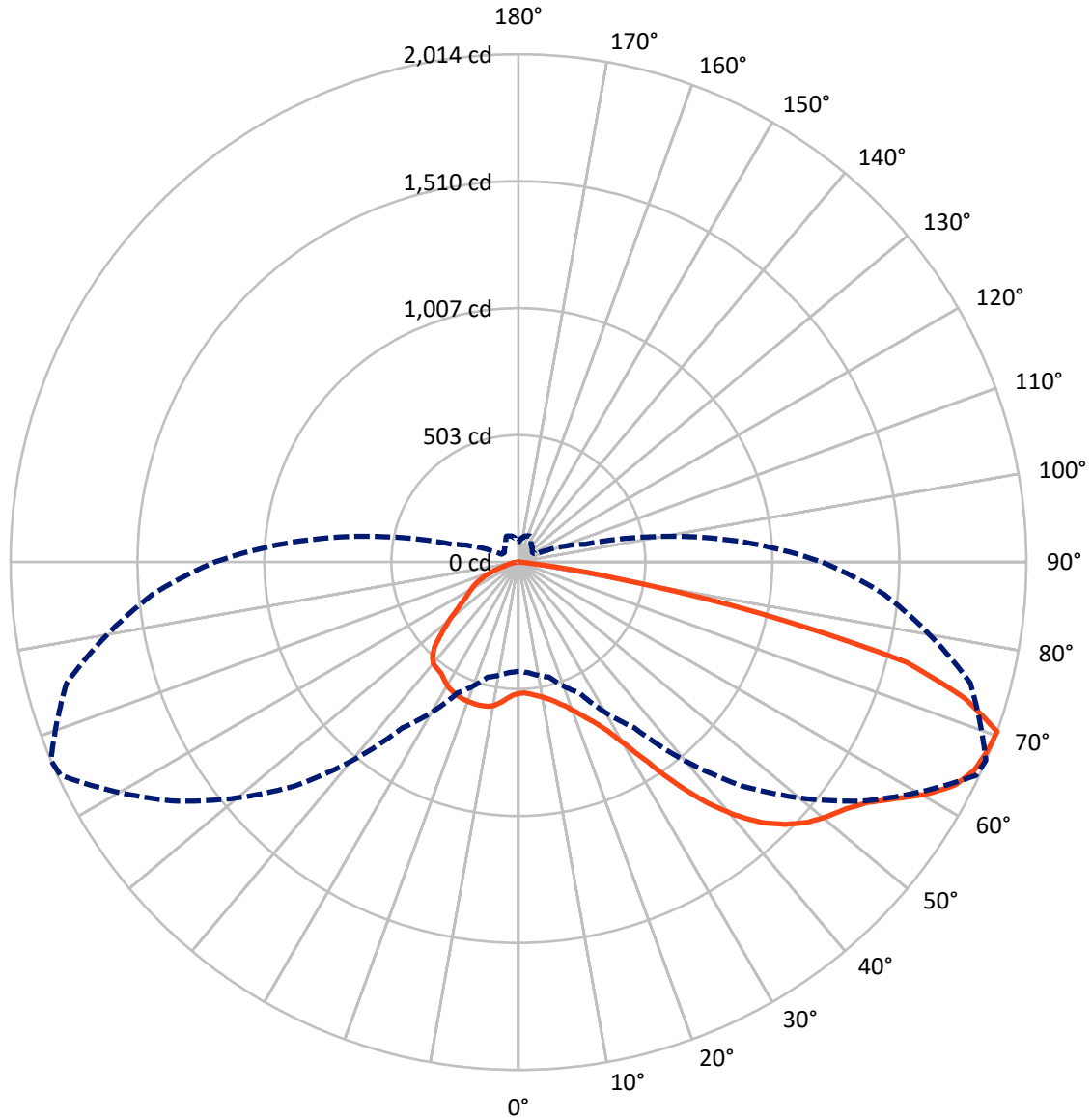
✕ Max cd
 - - - 1/2 Max cd



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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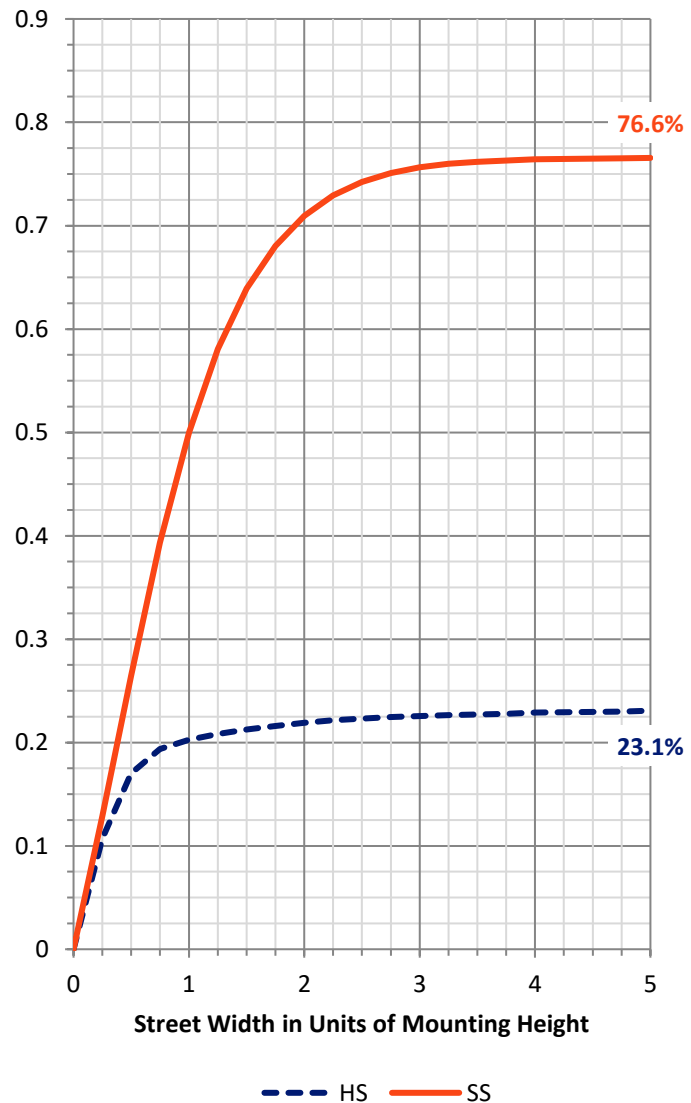
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.5	0.0	839.5
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	2748.5	0.0	2748.5
	% Fixture	76.6	0.0	76.6
Total	Lumens	3588.0	0.0	3588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.5
10°-20°	170.1	4.7
20°-30°	300.0	8.4
30°-40°	459.8	12.8
40°-50°	626.7	17.5
50°-60°	741.6	20.7
60°-70°	773.2	21.5
70°-80°	432.5	12.1
80°-90°	31.3	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°	3588.0	100.0
0°-180°	3588.0	100.0

Coefficient of Utilization



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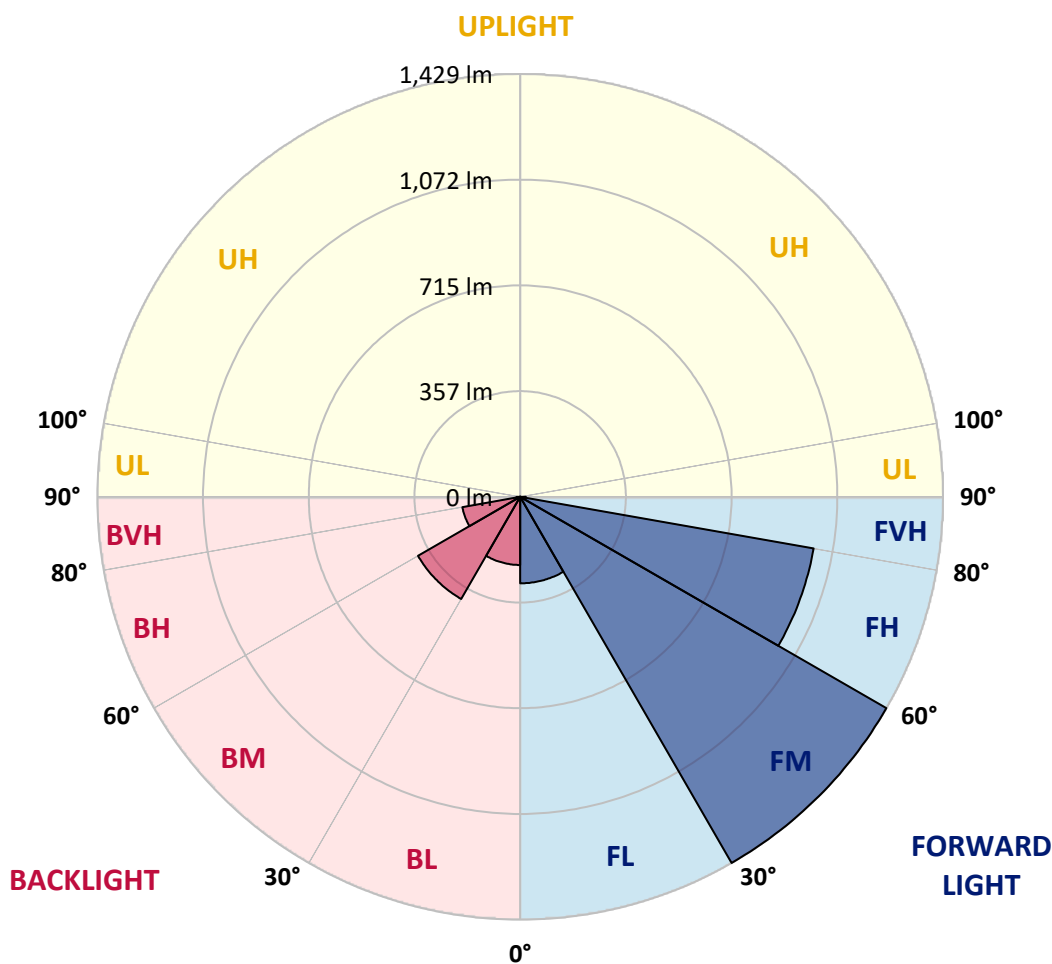
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.4	8.2			
FM (30°-60°)	1429.4	39.8			
FH (60°-80°)	1007.4	28.1			G1/1800
FVH (80°-90°)	19.2	0.5			G1/100
BL (0°-30°)	230.4	6.4	B1/500		
BM (30°-60°)	398.7	11.1	B1/1000		
BH (60°-80°)	198.2	5.5	B1/500		G1/500
BVH (80°-90°)	12.1	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°	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4
2.5°	522.5	522.5	522.5	521.5	521.5	521.5	520.4	519.4	519.4	520.4	520.4
5°	535.7	535.7	534.7	533.7	531.6	529.6	527.6	526.6	526.6	526.6	527.6
7.5°	554.1	553.0	551.0	550.0	546.9	543.9	539.8	535.7	535.7	533.7	535.7
10°	576.5	576.5	573.4	571.4	567.3	559.1	553.0	546.9	545.9	543.9	546.9
12.5°	605.0	605.0	602.9	597.8	591.7	581.6	570.3	560.2	559.1	556.1	562.2
15°	639.6	636.6	635.5	631.5	620.3	607.0	591.7	578.5	578.5	573.4	580.5
17.5°	678.3	677.3	676.3	671.2	657.9	638.6	618.2	602.9	599.9	596.8	600.9
20°	725.2	724.1	723.1	715.0	699.7	676.3	651.8	631.5	629.4	626.4	623.3
22.5°	779.1	779.1	775.1	769.0	747.6	720.1	690.5	665.1	665.1	662.0	647.8
25°	831.1	829.0	827.0	819.9	802.6	773.0	738.4	708.9	704.8	704.8	680.3
27.5°	879.0	879.0	882.0	877.9	860.6	830.1	795.4	761.8	759.8	755.7	718.0
30°	928.9	930.9	931.9	931.9	923.8	900.3	862.7	837.2	841.3	831.1	774.0
32.5°	966.5	968.6	981.8	994.0	986.9	973.7	952.3	944.1	948.2	956.4	894.2
35°	1002.2	1005.2	1023.6	1049.0	1060.2	1054.1	1057.2	1071.4	1080.6	1113.2	1059.2
37.5°	1028.7	1031.7	1048.0	1079.6	1113.2	1130.5	1159.0	1190.6	1207.9	1249.7	1172.3
40°	1035.8	1040.9	1074.5	1117.3	1168.2	1220.1	1254.8	1295.5	1316.9	1336.2	1248.7
42.5°	1011.4	1016.4	1060.2	1149.9	1221.2	1300.6	1338.3	1394.3	1411.6	1400.4	1307.7
45°	996.1	999.1	1043.9	1146.8	1267.0	1378.0	1414.7	1473.7	1483.9	1456.4	1358.7
47.5°	974.7	977.7	1025.6	1141.7	1303.7	1445.2	1470.7	1528.7	1542.0	1503.3	1397.4
50°	943.1	947.2	1002.2	1132.6	1328.1	1491.1	1518.6	1578.6	1585.8	1545.0	1438.1
52.5°	905.4	911.5	969.6	1113.2	1344.4	1520.6	1556.2	1618.4	1625.5	1599.0	1481.9
55°	859.6	865.7	927.8	1084.7	1339.3	1529.8	1572.5	1669.3	1681.5	1660.1	1519.6
57.5°	814.8	818.9	883.0	1042.9	1310.8	1544.0	1621.4	1751.8	1768.1	1723.3	1550.1
60°	760.8	770.0	832.1	985.9	1267.0	1558.3	1684.6	1850.6	1865.9	1784.4	1573.6
62.5°	704.8	712.9	767.9	914.6	1198.8	1545.0	1732.4	1936.1	1945.3	1833.3	1581.7
65°	639.6	640.6	691.5	824.0	1101.0	1491.1	1736.5	1977.9	1987.1	1863.8	1567.4
67.5°	553.0	553.0	595.8	708.9	969.6	1393.3	1699.8	1991.1	2004.4	1884.2	1532.8
70°	432.9	440.0	472.6	573.4	802.6	1254.8	1653.0	2001.3	2013.5	1854.7	1454.4
72.5°	302.5	300.5	334.1	395.2	580.5	1001.2	1474.8	1851.6	1851.6	1703.9	1310.8
75°	92.7	103.9	119.2	159.9	264.8	671.2	1207.9	1569.5	1589.9	1475.8	1080.6
77.5°	30.6	30.6	35.6	43.8	57.0	142.6	604.0	961.4	977.7	960.4	669.1
80°	24.4	24.4	27.5	31.6	36.7	73.3	212.9	360.5	387.0	426.7	277.0
82.5°	17.3	17.3	18.3	19.4	18.3	29.5	56.0	95.7	97.8	105.9	89.6
85°	11.2	10.2	10.2	9.2	8.1	8.1	7.1	7.1	8.1	8.1	10.2
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1	3.1	3.1
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°	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4
2.5°	521.5	522.5	525.5	527.6	529.6	531.6	532.7	533.7	533.7	534.7	534.7
5°	528.6	530.6	535.7	540.8	549.0	557.1	564.2	568.3	569.3	573.4	573.4
7.5°	537.8	540.8	553.0	562.2	574.4	583.6	591.7	595.8	599.9	601.9	601.9
10°	552.0	556.1	568.3	578.5	588.7	595.8	600.9	604.0	605.0	606.0	606.0
12.5°	566.3	571.4	578.5	586.6	592.8	596.8	599.9	600.9	600.9	600.9	600.9
15°	581.6	583.6	585.6	587.7	590.7	591.7	591.7	590.7	588.7	587.7	587.7
17.5°	596.8	594.8	591.7	587.7	583.6	580.5	576.5	572.4	569.3	567.3	568.3
20°	615.2	609.1	595.8	585.6	574.4	563.2	554.1	545.9	539.8	538.8	539.8
22.5°	636.6	624.3	602.9	581.6	562.2	541.8	522.5	511.3	505.2	500.1	500.1
25°	662.0	642.7	609.1	575.4	544.9	512.3	485.8	468.5	458.3	452.2	454.2
27.5°	691.5	667.1	615.2	566.3	519.4	476.6	442.0	414.5	403.3	395.2	396.2
30°	734.3	695.6	622.3	553.0	486.8	432.9	387.0	354.4	335.1	329.0	331.0
32.5°	830.1	756.7	630.4	533.7	450.2	380.9	319.8	280.1	259.7	259.7	258.7
35°	990.0	884.0	649.8	510.3	409.4	322.9	244.4	207.8	206.8	210.8	211.8
37.5°	1102.0	1001.2	709.9	487.9	364.6	252.6	181.3	171.1	181.3	185.4	184.3
40°	1174.3	1071.4	779.1	464.4	301.5	181.3	143.6	136.5	146.7	154.8	160.9
42.5°	1233.4	1120.3	810.7	433.9	225.1	130.4	105.9	103.9	119.2	130.4	134.4
45°	1280.2	1165.1	814.8	391.1	152.8	96.8	86.6	95.7	114.1	123.2	124.3
47.5°	1317.9	1201.8	803.6	322.9	101.8	84.5	84.5	96.8	114.1	123.2	123.2
50°	1354.6	1232.4	775.1	262.8	91.7	82.5	85.6	97.8	113.1	120.2	120.2
52.5°	1385.1	1252.7	725.2	209.8	88.6	80.5	85.6	97.8	111.0	114.1	112.0
55°	1412.6	1260.9	680.3	169.1	85.6	79.4	87.6	99.8	110.0	110.0	105.9
57.5°	1427.9	1241.5	646.7	139.5	82.5	79.4	88.6	101.8	113.1	115.1	112.0
60°	1427.9	1214.0	610.1	123.2	80.5	79.4	88.6	109.0	134.4	124.3	123.2
62.5°	1408.6	1184.5	555.1	110.0	77.4	80.5	89.6	121.2	164.0	123.2	118.1
65°	1375.0	1127.5	482.8	97.8	74.3	81.5	88.6	139.5	195.5	119.2	104.9
67.5°	1311.8	1036.8	393.1	85.6	70.3	79.4	86.6	128.3	120.2	98.8	88.6
70°	1202.8	901.4	273.0	74.3	67.2	77.4	86.6	113.1	106.9	90.6	79.4
72.5°	1040.9	739.4	146.7	61.1	59.1	73.3	84.5	103.9	91.7	74.3	67.2
75°	799.5	525.5	89.6	47.9	48.9	65.2	78.4	98.8	87.6	71.3	62.1
77.5°	461.4	243.4	64.2	35.6	34.6	51.9	70.3	91.7	85.6	69.3	60.1
80°	169.1	100.8	43.8	26.5	23.4	37.7	55.0	74.3	81.5	68.2	61.1
82.5°	72.3	54.0	28.5	18.3	17.3	21.4	33.6	51.9	68.2	55.0	50.9
85°	10.2	10.2	10.2	9.2	10.2	13.2	14.3	25.5	37.7	20.4	20.4
87.5°	4.1	4.1	4.1	4.1	5.1	5.1	4.1	4.1	3.1	3.1	3.1
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)