

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: P507564

Luminaire Tested: **VERD-S-CA1-40-760-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-40-760-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 760mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5428 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

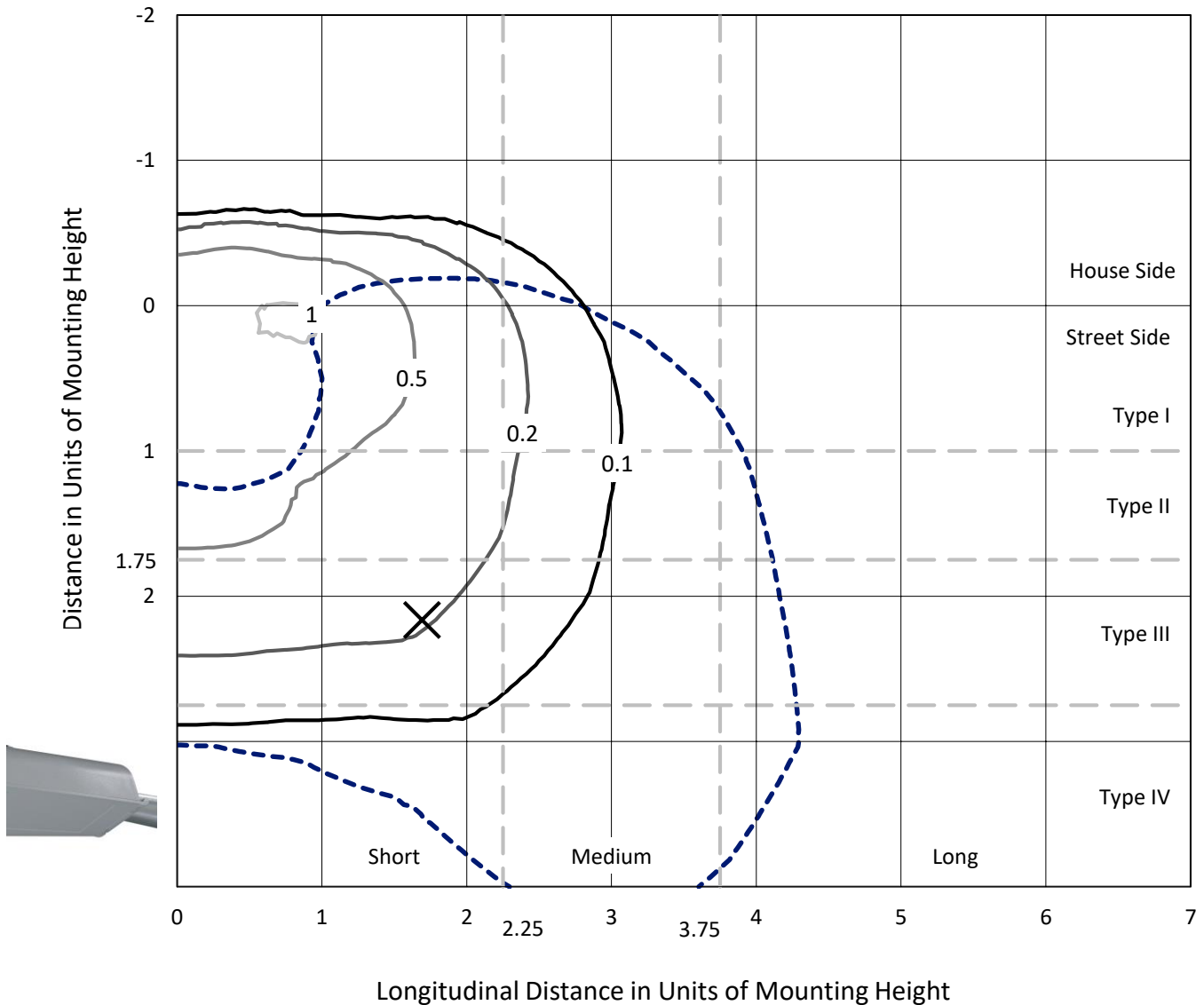
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P507564  
 CATALOG NUMBER: VERD-S-CA1-40-760-U-T4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

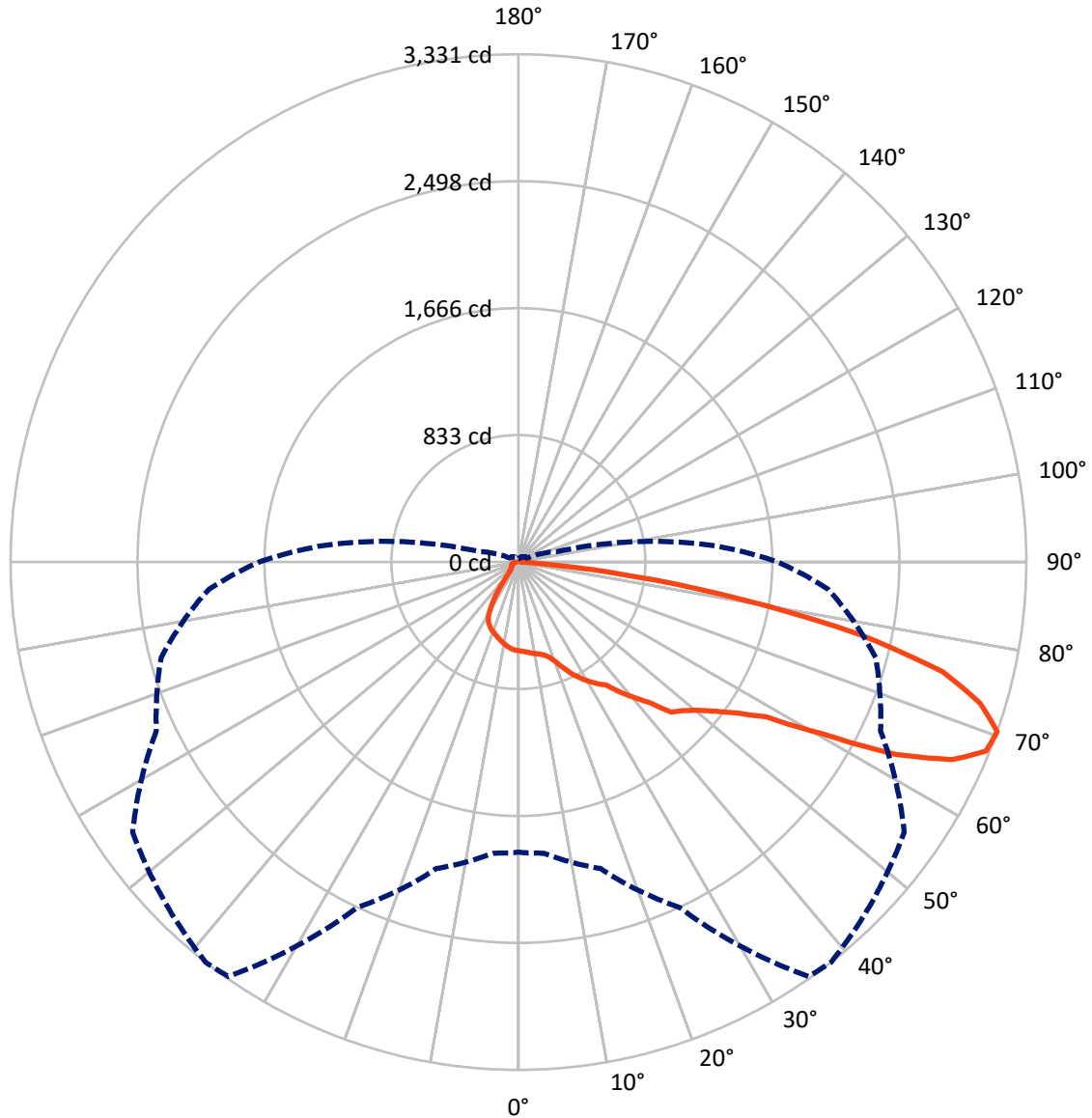
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P507564  
CATALOG NUMBER: VERD-S-CA1-40-760-U-T4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P507564

CATALOG NUMBER: VERD-S-CA1-40-760-U-T4-HSS

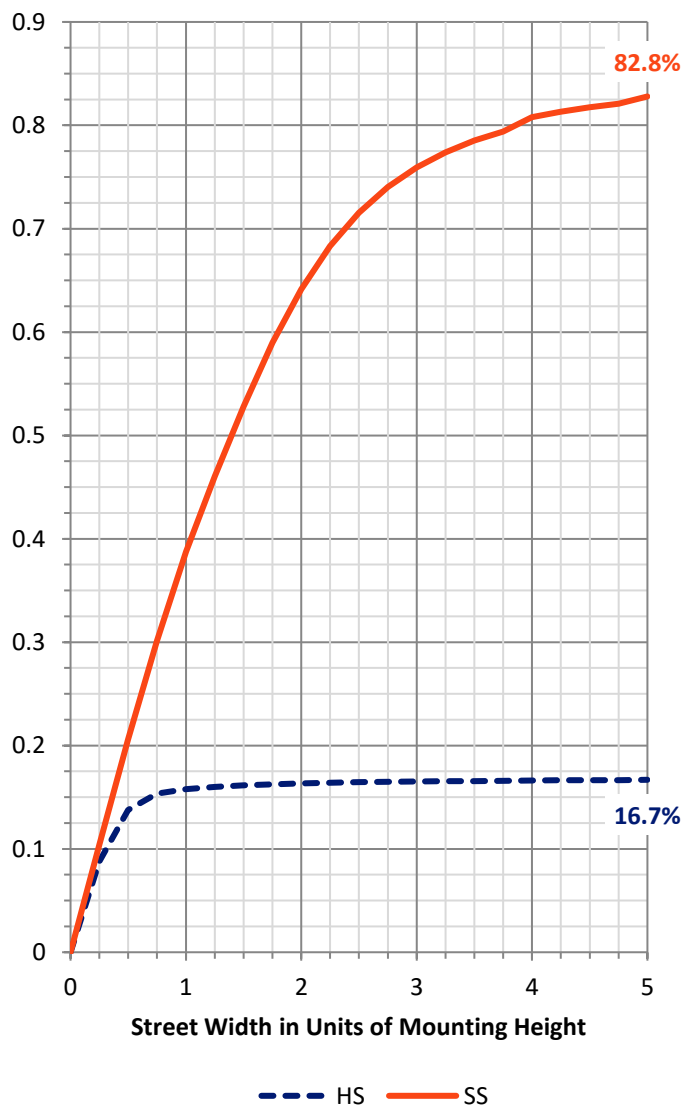
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	918.3	0.0	918.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	4509.7	0.0	4509.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	5428.0	0.0	5428.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	1.0
10°-20°	168.6	3.1
20°-30°	310.3	5.7
30°-40°	485.8	9.0
40°-50°	738.1	13.6
50°-60°	1061.2	19.6
60°-70°	1425.7	26.3
70°-80°	1056.3	19.5
80°-90°	126.3	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°	5428.0	100.0
0°-180°	5428.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507564

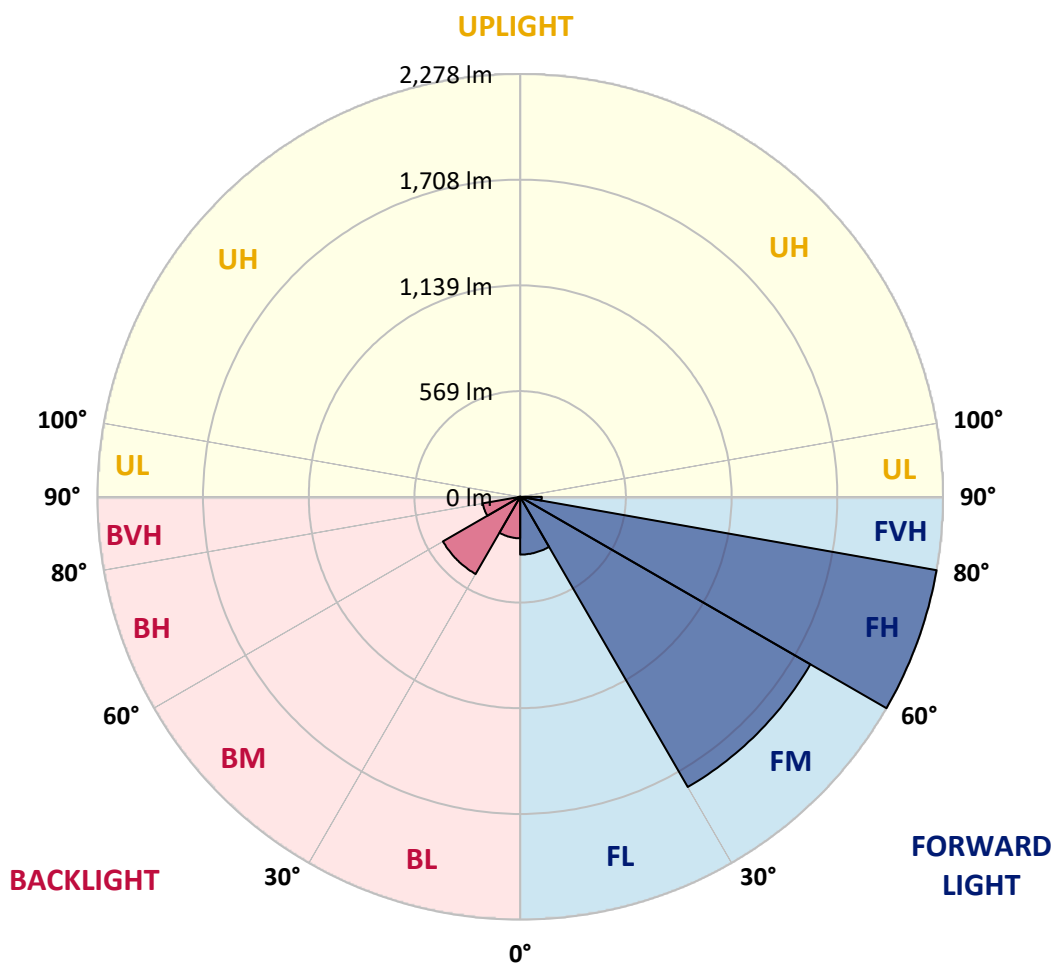
CATALOG NUMBER: VERD-S-CA1-40-760-U-T4-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.2	5.7			
FM	(30°-60°)	1804.8	33.2			
FH	(60°-80°)	2277.5	42.0			G2/5000
FVH	(80°-90°)	116.2	2.1			G2/225
BL	(0°-30°)	223.3	4.1	B1/500		
BM	(30°-60°)	480.4	8.8	B1/1000		
BH	(60°-80°)	204.5	3.8	B1/500		G1/500
BVH	(80°-90°)	10.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P507564

CATALOG NUMBER: VERD-S-CA1-40-760-U-T4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8
2.5°	590.4	590.4	590.4	588.7	588.7	586.9	586.9	585.2	585.2	583.5	581.8
5°	599.0	599.0	597.2	595.5	593.8	593.8	593.8	592.1	588.7	588.7	585.2
7.5°	602.4	602.4	602.4	602.4	602.4	602.4	602.4	600.7	599.0	597.2	593.8
10°	604.1	604.1	605.8	605.8	609.3	611.0	611.0	612.7	611.0	607.5	604.1
12.5°	609.3	611.0	611.0	612.7	617.8	619.6	621.3	626.4	626.4	623.0	619.6
15°	619.6	619.6	621.3	624.7	631.6	633.3	638.4	643.6	647.0	643.6	640.2
17.5°	650.4	650.4	650.4	650.4	653.9	655.6	662.5	671.0	674.5	674.5	672.8
20°	712.2	712.2	708.8	701.9	698.5	698.5	696.8	700.2	707.1	712.2	713.9
22.5°	782.6	780.9	779.2	768.9	756.9	753.4	750.0	746.6	750.0	758.6	762.0
25°	837.5	839.2	837.5	823.8	813.5	811.8	806.6	808.3	808.3	810.1	815.2
27.5°	882.1	885.6	878.7	871.8	865.0	859.8	863.3	868.4	877.0	873.6	883.9
30°	931.9	930.2	923.3	914.7	909.6	907.9	906.2	925.0	949.1	959.4	971.4
32.5°	1021.2	1019.4	1005.7	962.8	950.8	950.8	954.2	978.2	1016.0	1048.6	1079.5
35°	1103.5	1103.5	1086.4	1057.2	1005.7	990.3	998.8	1028.0	1082.9	1148.2	1197.9
37.5°	1201.4	1203.1	1184.2	1139.6	1098.4	1082.9	1041.7	1082.9	1149.9	1275.2	1336.9
40°	1314.6	1311.2	1280.3	1232.2	1179.0	1167.0	1132.7	1141.3	1235.7	1424.5	1484.5
42.5°	1378.1	1374.7	1354.1	1316.3	1273.4	1259.7	1228.8	1220.2	1350.7	1589.2	1628.7
45°	1439.9	1443.3	1441.6	1422.7	1412.5	1403.9	1386.7	1388.4	1493.1	1752.3	1754.0
47.5°	1476.0	1482.8	1455.4	1453.6	1455.4	1455.4	1479.4	1527.4	1628.7	1891.3	1863.8
50°	1582.4	1575.5	1491.4	1494.8	1517.1	1527.4	1572.1	1642.4	1817.5	2011.4	1958.2
52.5°	1796.9	1748.8	1642.4	1590.9	1599.5	1625.3	1678.5	1779.7	2006.3	2129.8	2042.3
55°	2037.2	2016.6	1906.7	1774.6	1716.2	1748.8	1805.5	1911.9	2155.6	2231.1	2112.7
57.5°	2203.6	2212.2	2215.6	2109.2	1905.0	1915.3	1951.3	2044.0	2289.4	2334.1	2165.9
60°	2365.0	2377.0	2442.2	2426.7	2359.8	2284.3	2143.6	2174.5	2404.4	2407.9	2207.1
62.5°	2493.7	2500.5	2605.2	2653.3	2773.4	2778.6	2550.3	2354.7	2521.1	2461.1	2222.5
65°	2428.5	2447.3	2600.1	2746.0	3087.5	3125.2	3036.0	2584.6	2610.4	2485.1	2212.2
67.5°	2208.8	2239.7	2383.8	2718.5	3283.1	3308.9	3229.9	3001.7	2643.0	2476.5	2155.6
70°	1903.3	1917.0	2081.8	2498.8	3319.2	3331.2	3233.4	3089.2	2620.7	2426.7	2037.2
72.5°	1548.0	1563.5	1705.9	2148.7	3156.1	3166.4	3140.7	3020.6	2567.5	2334.1	1796.9
75°	1161.9	1185.9	1321.5	1678.5	2787.1	2874.7	2927.9	2876.4	2419.9	2026.9	1367.8
77.5°	767.2	768.9	906.2	1268.3	2208.8	2296.3	2304.9	2262.0	1717.9	1271.7	607.5
80°	329.5	360.4	530.3	851.2	1467.4	1482.8	1500.0	1386.7	880.4	393.0	66.9
82.5°	109.8	121.9	223.1	449.7	722.5	739.7	708.8	614.4	247.1	53.2	37.8
85°	46.3	51.5	68.6	123.6	175.1	159.6	149.3	121.9	34.3	30.9	24.0
87.5°	1.7	1.7	1.7	1.7	3.4	1.7	3.4	3.4	5.1	5.1	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507564  
 CATALOG NUMBER: VERD-S-CA1-40-760-U-T4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8
2.5°	581.8	581.8	581.8	580.1	580.1	578.4	578.4	576.7	576.7	576.7	576.7
5°	585.2	585.2	581.8	580.1	576.7	573.2	569.8	566.4	562.9	562.9	562.9
7.5°	592.1	590.4	585.2	578.4	571.5	562.9	557.8	550.9	547.5	544.0	545.8
10°	602.4	599.0	592.1	581.8	568.1	554.3	542.3	532.0	526.9	521.7	520.0
12.5°	616.1	612.7	602.4	586.9	566.4	545.8	526.9	511.4	501.1	496.0	494.3
15°	636.7	631.6	617.8	595.5	566.4	535.5	509.7	487.4	470.2	459.9	459.9
17.5°	669.3	664.2	645.3	614.4	573.2	530.3	490.8	453.1	430.8	418.8	417.0
20°	712.2	705.4	683.1	638.4	585.2	528.6	470.2	422.2	384.4	363.8	362.1
22.5°	762.0	756.9	722.5	664.2	597.2	525.2	454.8	391.3	338.1	300.3	291.8
25°	820.4	811.8	760.3	684.8	600.7	516.6	432.5	358.7	284.9	238.6	230.0
27.5°	889.0	870.1	794.6	700.2	599.0	499.4	406.7	312.4	216.2	181.9	176.8
30°	962.8	930.2	828.9	710.5	588.7	472.0	362.1	233.4	156.2	135.6	130.4
32.5°	1046.9	995.4	859.8	712.2	566.4	434.2	286.6	159.6	111.6	99.5	97.8
35°	1148.2	1077.8	892.4	705.4	533.7	372.4	199.1	108.1	82.4	78.9	78.9
37.5°	1280.3	1182.5	928.5	684.8	484.0	288.3	132.1	73.8	72.1	73.8	73.8
40°	1419.3	1302.6	973.1	653.9	420.5	207.7	84.1	68.6	68.6	70.4	70.4
42.5°	1551.5	1417.6	1029.7	612.7	348.4	133.9	68.6	65.2	63.5	65.2	66.9
45°	1663.0	1525.7	1084.7	568.1	266.0	85.8	66.9	61.8	58.4	60.1	60.1
47.5°	1762.6	1608.1	1115.5	514.9	187.1	66.9	66.9	56.6	53.2	53.2	54.9
50°	1846.7	1673.3	1132.7	453.1	118.4	65.2	60.1	53.2	49.8	49.8	48.1
52.5°	1917.0	1721.4	1131.0	384.4	77.2	63.5	56.6	49.8	44.6	46.3	46.3
55°	1970.2	1759.1	1105.2	295.2	65.2	60.1	54.9	46.3	42.9	46.3	46.3
57.5°	2011.4	1776.3	1057.2	205.9	63.5	54.9	51.5	42.9	39.5	41.2	41.2
60°	2032.0	1767.7	981.7	128.7	61.8	53.2	48.1	39.5	36.0	34.3	36.0
62.5°	2025.1	1736.8	873.6	85.8	58.4	49.8	44.6	37.8	32.6	29.2	29.2
65°	1984.0	1668.2	744.8	72.1	56.6	49.8	42.9	36.0	29.2	27.5	27.5
67.5°	1891.3	1525.7	552.6	66.9	56.6	48.1	41.2	34.3	29.2	25.7	25.7
70°	1700.8	1270.0	266.0	61.8	56.6	49.8	41.2	32.6	27.5	24.0	24.0
72.5°	1376.4	897.6	68.6	53.2	54.9	49.8	42.9	32.6	25.7	22.3	22.3
75°	897.6	430.8	58.4	42.9	49.8	46.3	41.2	32.6	25.7	20.6	20.6
77.5°	291.8	60.1	53.2	37.8	44.6	44.6	41.2	32.6	25.7	18.9	18.9
80°	46.3	42.9	46.3	29.2	32.6	37.8	32.6	30.9	24.0	17.2	17.2
82.5°	32.6	39.5	34.3	24.0	29.2	30.9	25.7	20.6	17.2	15.4	15.4
85°	24.0	25.7	20.6	18.9	22.3	25.7	20.6	15.4	13.7	13.7	13.7
87.5°	8.6	10.3	10.3	13.7	17.2	18.9	12.0	8.6	10.3	10.3	10.3
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)