

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: P507548

Luminaire Tested: **VERD-S-CA1-40-740-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507548  
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-CA1-40-740-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 760mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5445 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

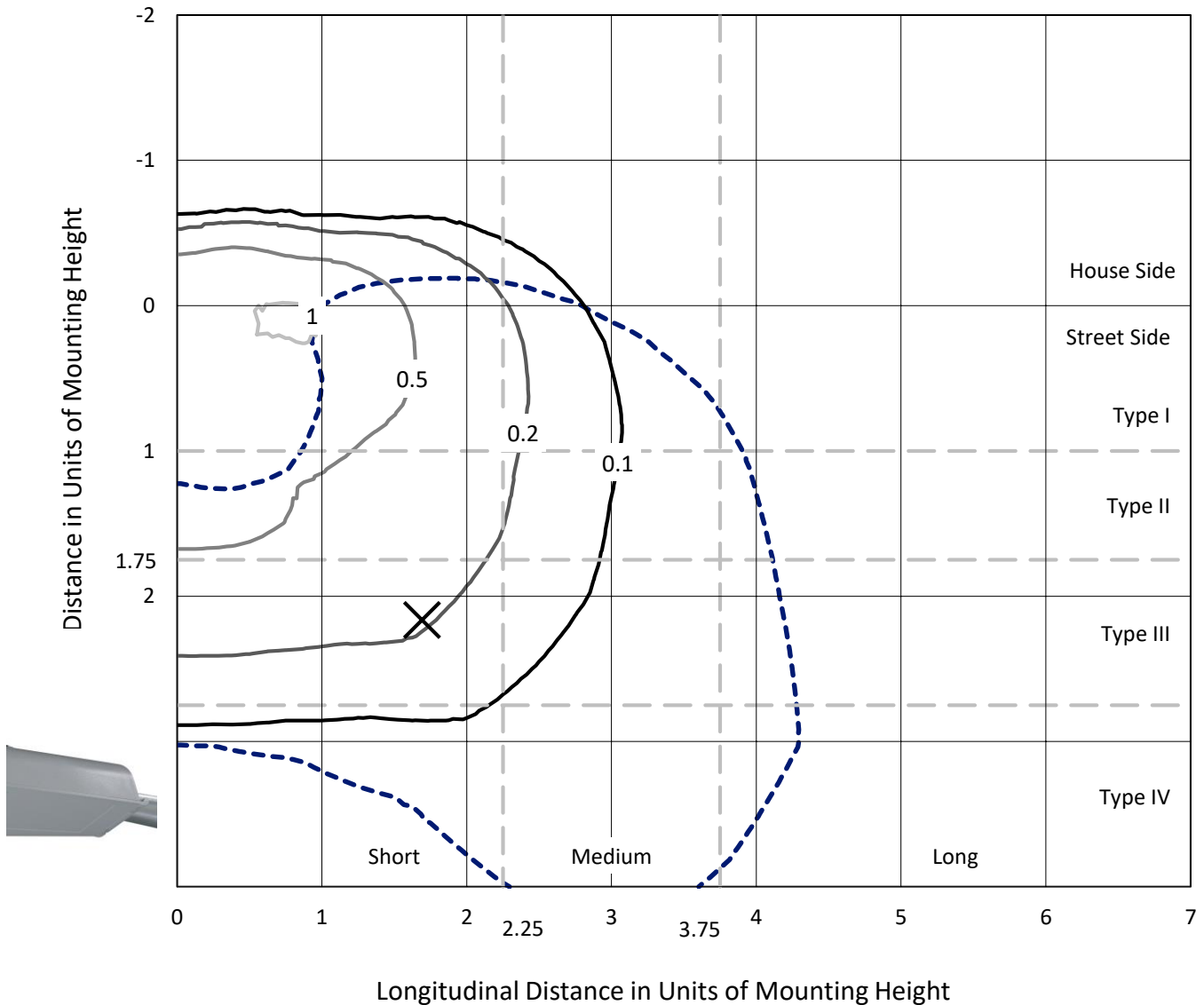
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

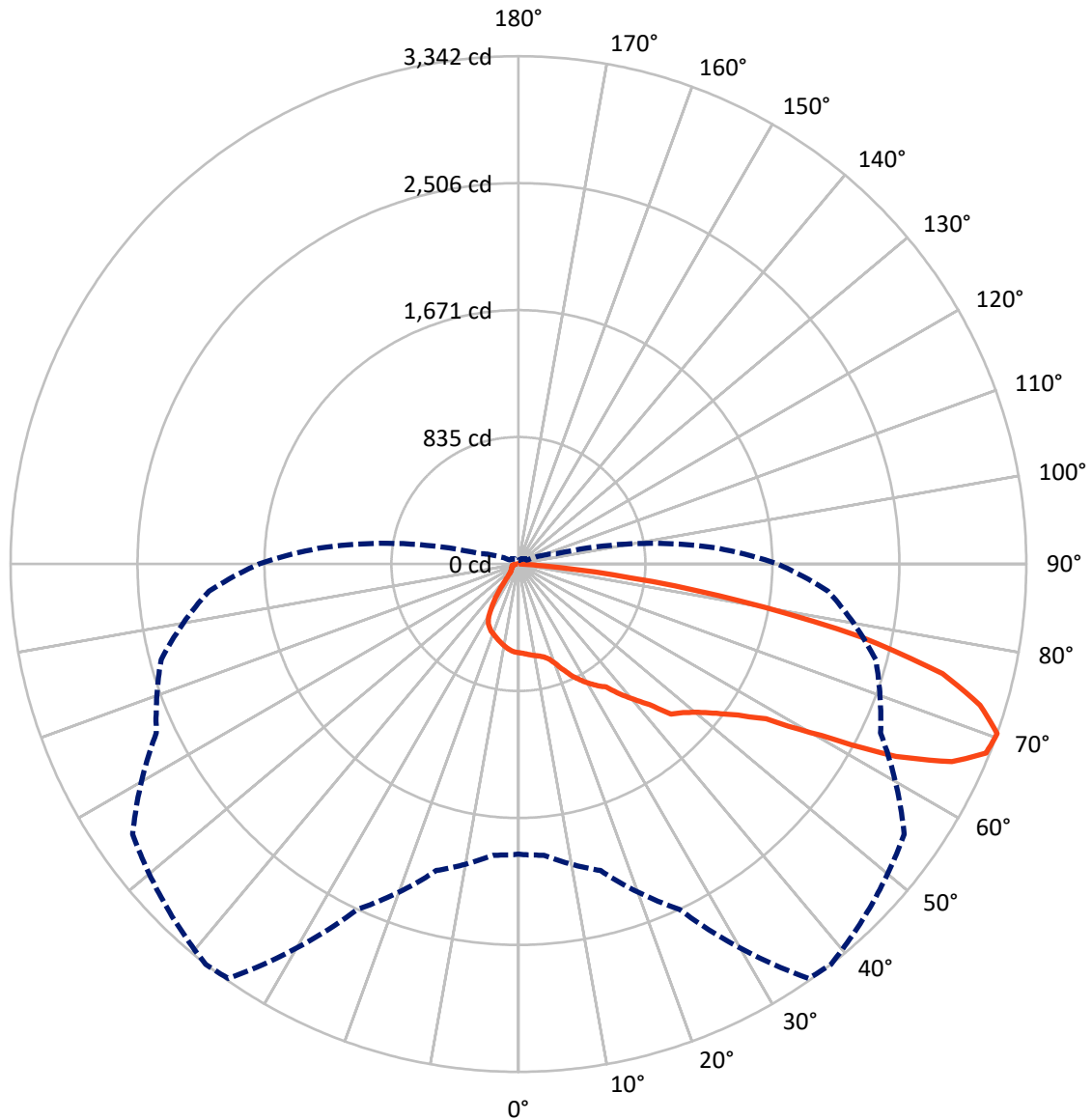
× Max cd  
 - - - 1/2 Max cd



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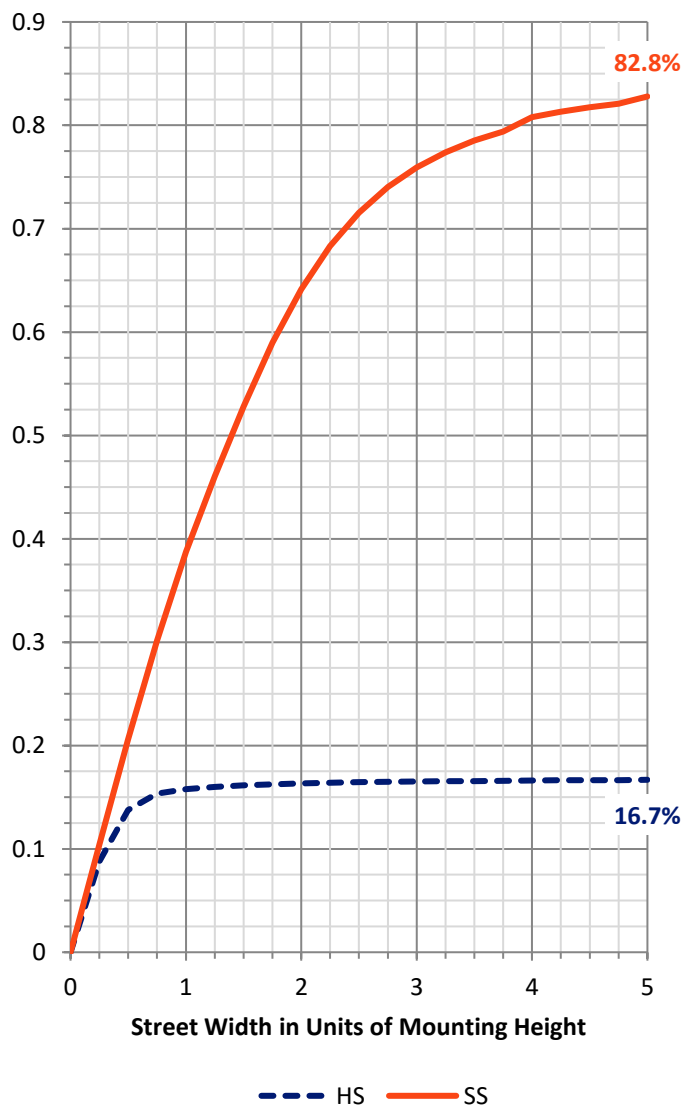
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	921.2	0.0	921.2
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	4523.8	0.0	4523.8
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	5445.0	0.0	5445.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	1.0
10°-20°	169.1	3.1
20°-30°	311.3	5.7
30°-40°	487.4	9.0
40°-50°	740.4	13.6
50°-60°	1064.6	19.6
60°-70°	1430.2	26.3
70°-80°	1059.6	19.5
80°-90°	126.7	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°	5445.0	100.0
0°-180°	5445.0	100.0

**Coefficient of Utilization**



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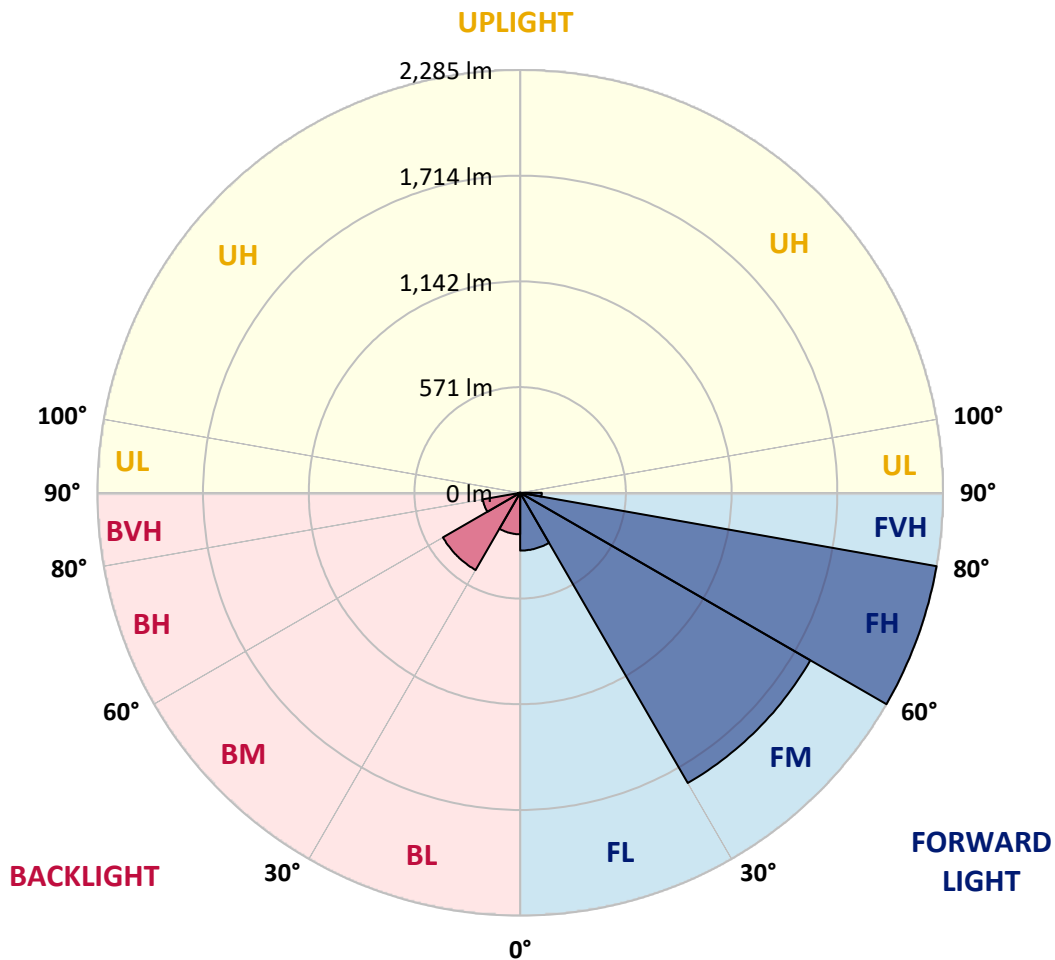
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.2	5.7			
FM (30°-60°)	1810.4	33.2			
FH (60°-80°)	2284.7	42.0			G2/5000
FVH (80°-90°)	116.6	2.1			G2/225
BL (0°-30°)	224.0	4.1	B1/500		
BM (30°-60°)	481.9	8.8	B1/1000		
BH (60°-80°)	205.1	3.8	B1/500		G1/500
BVH (80°-90°)	10.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6
2.5°	592.2	592.2	592.2	590.5	590.5	588.8	588.8	587.1	587.1	585.3	583.6
5°	600.8	600.8	599.1	597.4	595.7	595.7	595.7	594.0	590.5	590.5	587.1
7.5°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	602.6	600.8	599.1	595.7
10°	606.0	606.0	607.7	607.7	611.2	612.9	612.9	614.6	612.9	609.4	606.0
12.5°	611.2	612.9	612.9	614.6	619.8	621.5	623.2	628.4	628.4	624.9	621.5
15°	621.5	621.5	623.2	626.7	633.5	635.3	640.4	645.6	649.0	645.6	642.2
17.5°	652.5	652.5	652.5	652.5	655.9	657.7	664.5	673.1	676.6	676.6	674.9
20°	714.5	714.5	711.0	704.1	700.7	700.7	699.0	702.4	709.3	714.5	716.2
22.5°	785.0	783.3	781.6	771.3	759.2	755.8	752.3	748.9	752.3	760.9	764.4
25°	840.1	841.9	840.1	826.4	816.0	814.3	809.2	810.9	810.9	812.6	817.8
27.5°	884.9	888.3	881.5	874.6	867.7	862.5	866.0	871.1	879.7	876.3	886.6
30°	934.8	933.1	926.2	917.6	912.4	910.7	909.0	927.9	952.0	962.4	974.4
32.5°	1024.4	1022.6	1008.9	965.8	953.8	953.8	957.2	981.3	1019.2	1051.9	1082.9
35°	1107.0	1107.0	1089.8	1060.5	1008.9	993.4	1002.0	1031.2	1086.3	1151.7	1201.7
37.5°	1205.1	1206.8	1187.9	1143.1	1101.8	1086.3	1045.0	1086.3	1153.5	1279.1	1341.1
40°	1318.7	1315.3	1284.3	1236.1	1182.7	1170.7	1136.3	1144.9	1239.6	1428.9	1489.2
42.5°	1382.4	1379.0	1358.3	1320.5	1277.4	1263.7	1232.7	1224.1	1354.9	1594.2	1633.8
45°	1444.4	1447.9	1446.1	1427.2	1416.9	1408.3	1391.1	1392.8	1497.8	1757.8	1759.5
47.5°	1480.6	1487.5	1459.9	1458.2	1459.9	1459.9	1484.0	1532.2	1633.8	1897.2	1869.7
50°	1587.3	1580.4	1496.1	1499.5	1521.9	1532.2	1577.0	1647.6	1823.2	2017.7	1964.3
52.5°	1802.5	1754.3	1647.6	1595.9	1604.5	1630.4	1683.7	1785.3	2012.5	2136.5	2048.7
55°	2043.5	2022.9	1912.7	1780.1	1721.6	1754.3	1811.1	1917.9	2162.3	2238.1	2119.3
57.5°	2210.5	2219.1	2222.6	2115.8	1911.0	1921.3	1957.5	2050.4	2296.6	2341.4	2172.7
60°	2372.4	2384.4	2449.8	2434.3	2367.2	2291.4	2150.3	2181.3	2412.0	2415.4	2214.0
62.5°	2501.5	2508.4	2613.4	2661.6	2782.1	2787.3	2558.3	2362.0	2529.0	2468.8	2229.5
65°	2436.1	2455.0	2608.2	2754.6	3097.2	3135.0	3045.5	2592.7	2618.6	2492.9	2219.1
67.5°	2215.7	2246.7	2391.3	2727.0	3293.4	3319.2	3240.0	3011.1	2651.3	2484.3	2162.3
70°	1909.3	1923.0	2088.3	2506.6	3329.6	3341.6	3243.5	3098.9	2628.9	2434.3	2043.5
72.5°	1552.9	1568.4	1711.3	2155.4	3166.0	3176.3	3150.5	3030.0	2575.5	2341.4	1802.5
75°	1165.5	1189.6	1325.6	1683.7	2795.9	2883.7	2937.0	2885.4	2427.5	2033.2	1372.1
77.5°	769.6	771.3	909.0	1272.3	2215.7	2303.5	2312.1	2269.1	1723.3	1275.7	609.4
80°	330.5	361.5	532.0	853.9	1472.0	1487.5	1504.7	1391.1	883.2	394.2	67.1
82.5°	110.2	122.2	223.8	451.1	724.8	742.0	711.0	616.3	247.9	53.4	37.9
85°	46.5	51.6	68.9	124.0	175.6	160.1	149.8	122.2	34.4	31.0	24.1
87.5°	1.7	1.7	1.7	1.7	3.4	1.7	3.4	3.4	5.2	5.2	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6
2.5°	583.6	583.6	583.6	581.9	581.9	580.2	580.2	578.5	578.5	578.5	578.5
5°	587.1	587.1	583.6	581.9	578.5	575.0	571.6	568.1	564.7	564.7	564.7
7.5°	594.0	592.2	587.1	580.2	573.3	564.7	559.5	552.6	549.2	545.7	547.5
10°	604.3	600.8	594.0	583.6	569.8	556.1	544.0	533.7	528.5	523.4	521.6
12.5°	618.1	614.6	604.3	588.8	568.1	547.5	528.5	513.0	502.7	497.5	495.8
15°	638.7	633.5	619.8	597.4	568.1	537.1	511.3	488.9	471.7	461.4	461.4
17.5°	671.4	666.3	647.3	616.3	575.0	532.0	492.4	454.5	432.1	420.1	418.3
20°	714.5	707.6	685.2	640.4	587.1	530.3	471.7	423.5	385.6	365.0	363.3
22.5°	764.4	759.2	724.8	666.3	599.1	526.8	456.2	392.5	339.2	301.3	292.7
25°	822.9	814.3	762.7	686.9	602.6	518.2	433.8	359.8	285.8	239.3	230.7
27.5°	891.8	872.9	797.1	702.4	600.8	501.0	408.0	313.3	216.9	182.5	177.3
30°	965.8	933.1	831.5	712.7	590.5	473.4	363.3	234.1	156.7	136.0	130.8
32.5°	1050.2	998.5	862.5	714.5	568.1	435.6	287.5	160.1	111.9	99.9	98.1
35°	1151.7	1081.2	895.2	707.6	535.4	373.6	199.7	108.5	82.6	79.2	79.2
37.5°	1284.3	1186.2	931.4	686.9	485.5	289.2	132.6	74.0	72.3	74.0	74.0
40°	1423.8	1306.7	976.1	655.9	421.8	208.3	84.4	68.9	68.9	70.6	70.6
42.5°	1556.3	1422.0	1033.0	614.6	349.5	134.3	68.9	65.4	63.7	65.4	67.1
45°	1668.2	1530.5	1088.1	569.8	266.8	86.1	67.1	62.0	58.5	60.3	60.3
47.5°	1768.1	1613.1	1119.0	516.5	187.7	67.1	67.1	56.8	53.4	53.4	55.1
50°	1852.4	1678.6	1136.3	454.5	118.8	65.4	60.3	53.4	49.9	49.9	48.2
52.5°	1923.0	1726.8	1134.5	385.6	77.5	63.7	56.8	49.9	44.8	46.5	46.5
55°	1976.4	1764.6	1108.7	296.1	65.4	60.3	55.1	46.5	43.0	46.5	46.5
57.5°	2017.7	1781.9	1060.5	206.6	63.7	55.1	51.6	43.0	39.6	41.3	41.3
60°	2038.4	1773.2	984.8	129.1	62.0	53.4	48.2	39.6	36.2	34.4	36.2
62.5°	2031.5	1742.3	876.3	86.1	58.5	49.9	44.8	37.9	32.7	29.3	29.3
65°	1990.2	1673.4	747.2	72.3	56.8	49.9	43.0	36.2	29.3	27.5	27.5
67.5°	1897.2	1530.5	554.4	67.1	56.8	48.2	41.3	34.4	29.3	25.8	25.8
70°	1706.1	1274.0	266.8	62.0	56.8	49.9	41.3	32.7	27.5	24.1	24.1
72.5°	1380.7	900.4	68.9	53.4	55.1	49.9	43.0	32.7	25.8	22.4	22.4
75°	900.4	432.1	58.5	43.0	49.9	46.5	41.3	32.7	25.8	20.7	20.7
77.5°	292.7	60.3	53.4	37.9	44.8	44.8	41.3	32.7	25.8	18.9	18.9
80°	46.5	43.0	46.5	29.3	32.7	37.9	32.7	31.0	24.1	17.2	17.2
82.5°	32.7	39.6	34.4	24.1	29.3	31.0	25.8	20.7	17.2	15.5	15.5
85°	24.1	25.8	20.7	18.9	22.4	25.8	20.7	15.5	13.8	13.8	13.8
87.5°	8.6	10.3	10.3	13.8	17.2	18.9	12.1	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)