

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: P507440

Luminaire Tested: **VERD-S-CA1-20-730-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)  
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-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 430mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3216 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

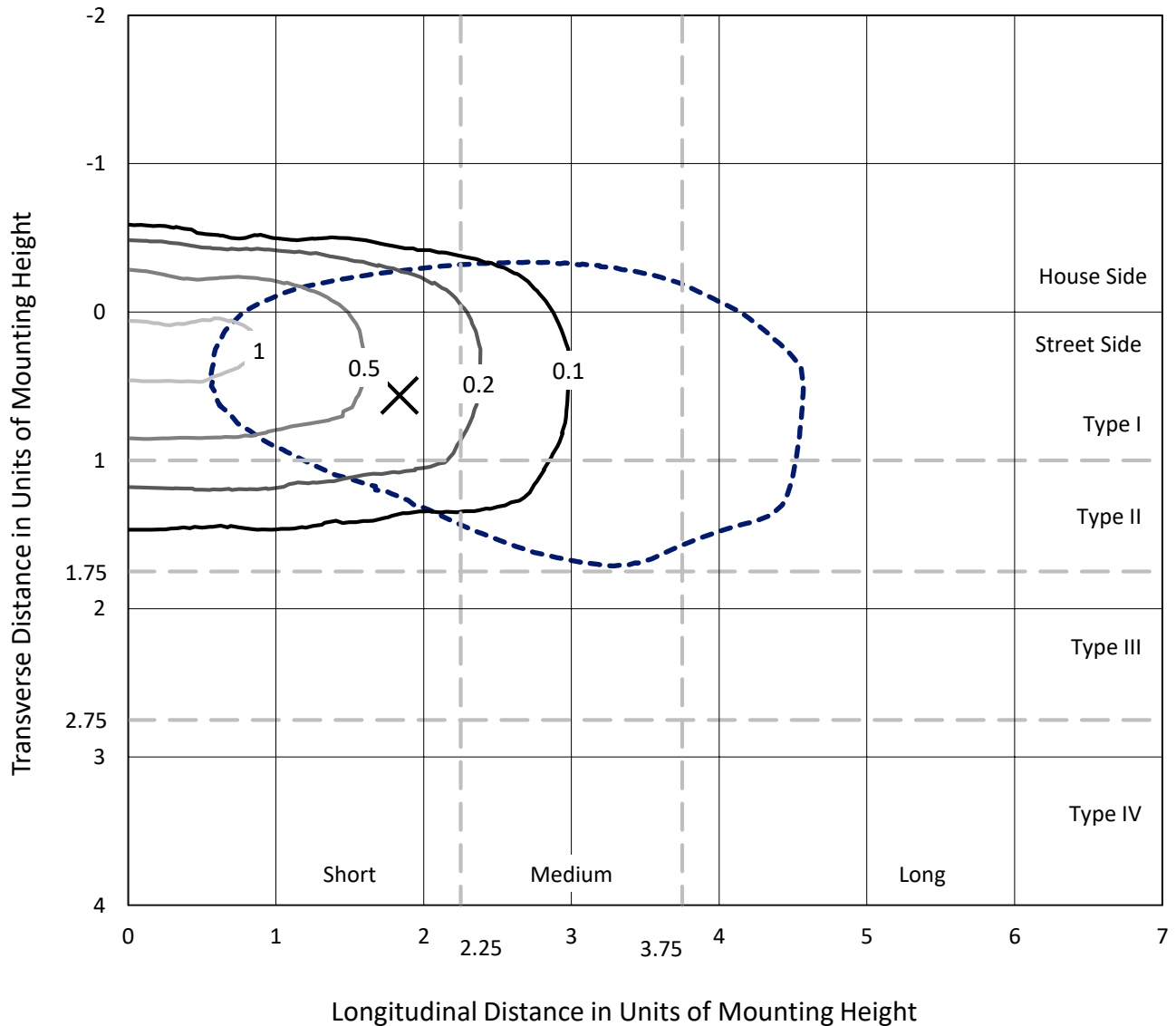
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

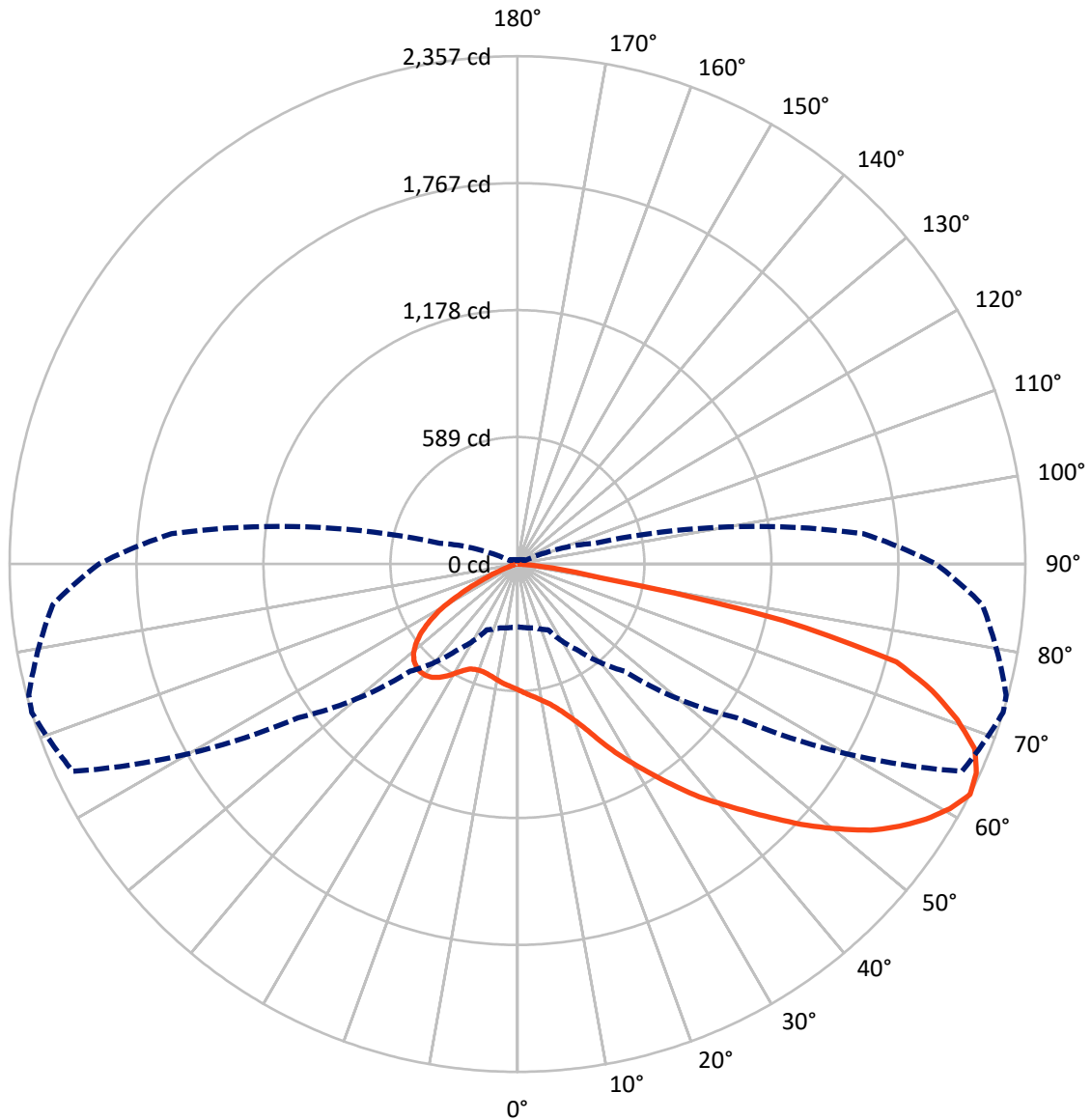
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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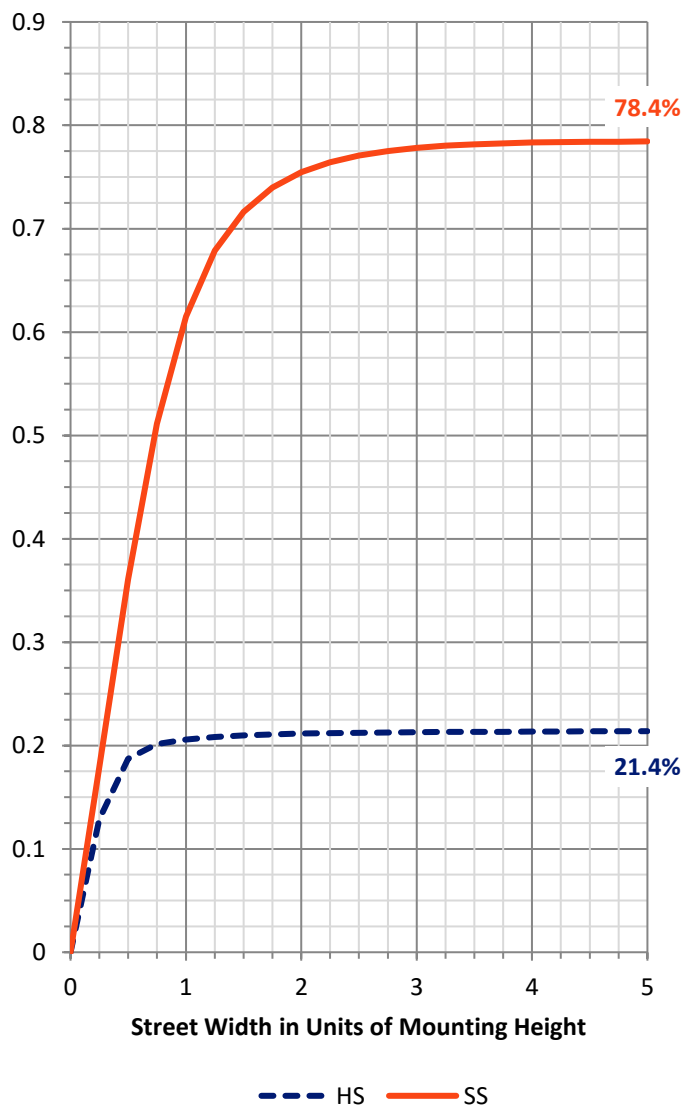
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	696.6	0.0	696.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	2519.4	0.0	2519.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	3216.0	0.0	3216.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.9	1.7
10°-20°	168.2	5.2
20°-30°	290.9	9.0
30°-40°	427.3	13.3
40°-50°	555.4	17.3
50°-60°	643.9	20.0
60°-70°	648.0	20.2
70°-80°	394.9	12.3
80°-90°	31.4	1.0
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°	3216.0	100.0
0°-180°	3216.0	100.0

**Coefficient of Utilization**



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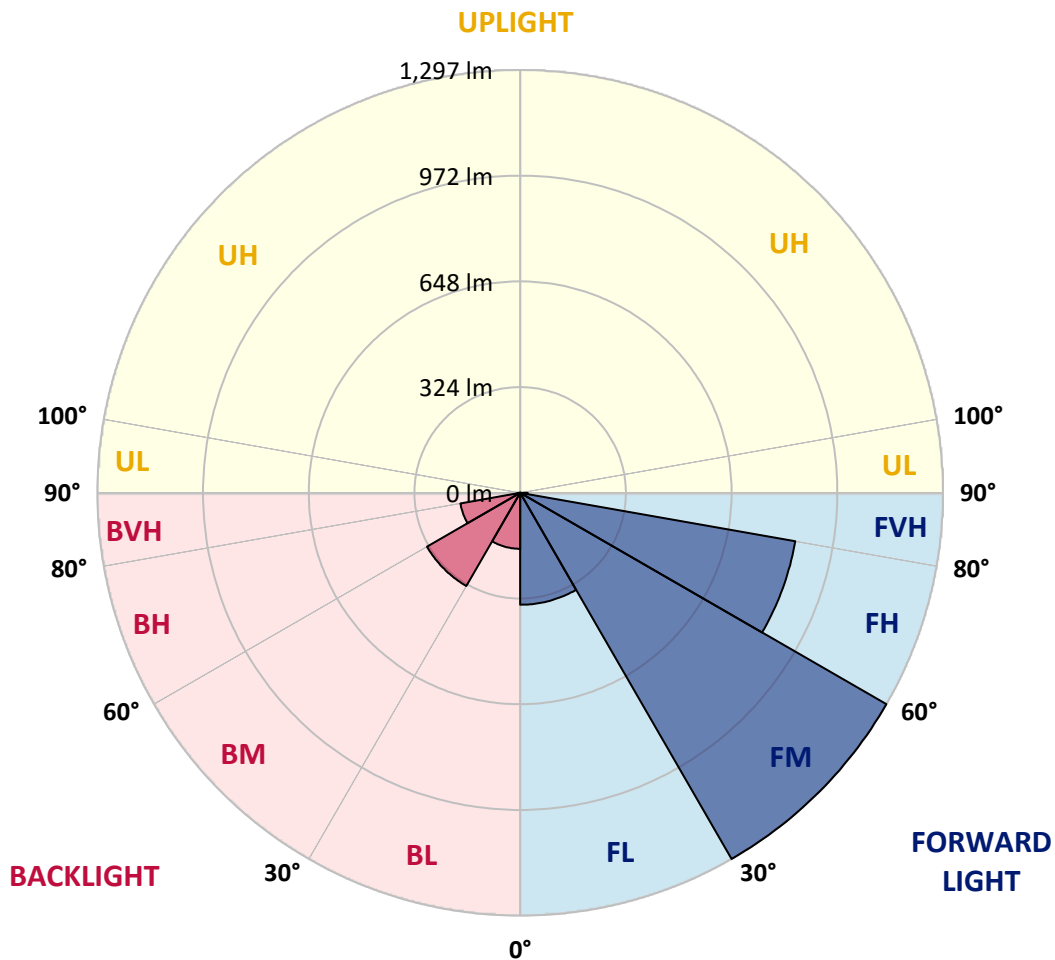
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.3	10.7			
FM (30°-60°)	1296.6	40.3			
FH (60°-80°)	856.7	26.6			G1/1800
FVH (80°-90°)	22.8	0.7			G1/100
BL (0°-30°)	171.7	5.3	B1/500		
BM (30°-60°)	330.0	10.3	B1/1000		
BH (60°-80°)	186.3	5.8	B1/500		G1/500
BVH (80°-90°)	8.6	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2
2.5°	623.5	623.5	622.5	621.5	617.6	613.7	607.8	602.9	598.0	596.0	588.1
5°	659.8	659.8	658.8	654.9	650.0	643.1	633.3	620.5	611.7	610.7	597.0
7.5°	690.3	689.3	688.3	686.3	681.4	672.6	657.9	641.2	626.4	622.5	605.8
10°	719.7	720.7	718.7	713.8	707.9	697.1	682.4	662.8	645.1	639.2	613.7
12.5°	751.1	750.1	747.2	741.3	733.5	724.6	708.9	689.3	665.7	659.8	626.4
15°	777.6	778.6	773.7	769.8	761.9	752.1	738.4	718.7	695.2	688.3	645.1
17.5°	801.2	801.2	800.2	798.3	792.4	785.5	771.8	758.0	733.5	722.7	673.6
20°	818.9	819.9	821.8	825.8	826.7	820.8	814.0	804.2	780.6	769.8	708.9
22.5°	834.6	836.6	844.4	856.2	866.0	866.0	865.0	864.0	840.5	833.6	760.9
25°	838.5	841.5	859.1	884.7	900.4	913.1	930.8	937.7	920.0	908.2	828.7
27.5°	844.4	847.4	867.0	897.4	936.7	965.2	996.6	1014.3	1001.5	989.7	906.3
30°	839.5	843.4	865.0	908.2	960.3	1020.2	1059.4	1085.9	1082.0	1075.1	986.8
32.5°	826.7	830.7	856.2	909.2	988.7	1076.1	1120.3	1161.6	1172.4	1166.5	1071.2
35°	801.2	805.1	836.6	901.4	1002.5	1118.4	1181.2	1242.1	1266.6	1262.7	1163.5
37.5°	768.8	768.8	806.1	877.8	1007.4	1150.8	1235.2	1322.6	1370.7	1364.8	1256.8
40°	714.8	724.6	770.8	852.3	999.5	1174.3	1287.2	1406.0	1465.9	1463.0	1357.9
42.5°	660.8	668.7	712.8	808.1	980.9	1188.1	1330.4	1493.4	1571.0	1569.0	1455.1
45°	612.7	618.6	654.9	747.2	941.6	1192.0	1371.7	1586.7	1686.9	1682.9	1554.3
47.5°	550.8	562.6	608.8	690.3	887.6	1180.2	1410.0	1703.5	1812.5	1808.6	1661.3
50°	417.3	425.2	521.4	644.1	817.9	1150.8	1441.4	1818.4	1931.3	1923.5	1758.5
52.5°	379.0	383.9	414.3	587.2	753.1	1097.7	1461.0	1955.9	2052.1	2039.3	1858.7
55°	354.5	358.4	376.1	470.3	696.1	1008.4	1466.9	2085.5	2149.3	2136.6	1951.0
57.5°	332.9	334.8	352.5	400.6	628.4	895.5	1446.3	2181.7	2234.7	2221.0	2030.5
60°	310.3	313.2	329.9	365.3	546.9	791.4	1382.5	2258.3	2305.4	2293.6	2100.2
62.5°	291.6	295.5	306.3	336.8	488.0	703.0	1243.0	2276.0	2356.5	2347.7	2165.0
65°	269.0	272.0	285.7	311.3	427.1	648.0	1101.7	2223.9	2339.8	2350.6	2201.4
67.5°	242.5	245.5	257.3	276.9	358.4	590.1	977.9	2150.3	2288.7	2303.5	2174.8
70°	210.1	212.1	223.9	242.5	297.5	514.5	848.3	2042.3	2165.0	2175.8	2069.8
72.5°	174.8	174.8	183.6	205.2	244.5	426.1	680.4	1814.5	2013.8	2040.3	1892.1
75°	73.6	77.6	93.3	112.9	156.1	311.3	465.4	1397.2	1816.5	1839.0	1671.1
77.5°	14.7	15.7	17.7	26.5	41.2	135.5	144.3	609.7	1260.7	1275.5	1220.5
80°	11.8	11.8	12.8	19.6	27.5	62.8	47.1	199.3	392.7	505.7	652.0
82.5°	3.9	4.9	6.9	10.8	13.7	13.7	15.7	100.2	194.4	209.1	263.1
85°	2.0	2.0	2.9	3.9	3.9	3.9	3.9	17.7	33.4	40.3	56.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.9	2.9	3.9
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°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2
2.5°	584.2	581.3	574.4	569.5	562.6	556.7	549.8	545.9	544.0	543.0	541.0
5°	589.1	581.3	567.5	552.8	540.0	530.2	516.5	509.6	505.7	503.7	502.7
7.5°	595.0	585.2	561.6	539.0	516.5	499.8	483.1	472.3	467.4	466.4	465.4
10°	598.9	583.2	551.8	527.3	497.8	471.3	451.7	438.9	432.0	431.0	430.1
12.5°	606.8	586.2	544.0	508.6	478.2	443.8	423.2	408.5	401.6	395.7	395.7
15°	619.6	593.0	540.0	492.9	452.6	419.3	392.7	377.0	372.1	364.3	362.3
17.5°	641.2	605.8	537.1	477.2	429.1	395.7	364.3	347.6	344.6	337.8	333.8
20°	667.7	624.5	539.0	462.5	404.5	366.2	334.8	318.1	308.3	302.4	300.5
22.5°	709.9	652.0	545.9	451.7	382.9	339.7	306.3	279.8	258.2	250.4	250.4
25°	769.8	699.1	557.7	442.8	361.3	314.2	273.0	227.8	199.3	188.5	185.6
27.5°	837.5	759.0	585.2	435.0	343.7	285.7	224.8	174.8	144.3	134.5	134.5
30°	915.1	821.8	618.6	430.1	322.1	242.5	169.9	127.6	103.1	92.3	91.3
32.5°	991.7	886.6	657.9	426.1	299.5	189.5	122.7	93.3	72.7	64.8	65.8
35°	1068.3	950.5	691.2	426.1	262.2	136.5	87.4	64.8	52.0	48.1	48.1
37.5°	1154.7	1022.1	717.7	420.2	206.2	97.2	59.9	47.1	43.2	41.2	41.2
40°	1244.0	1088.9	735.4	407.5	147.3	66.8	42.2	41.2	39.3	36.3	35.3
42.5°	1327.5	1165.5	746.2	382.9	96.2	44.2	37.3	38.3	37.3	32.4	31.4
45°	1415.9	1227.3	752.1	333.8	63.8	36.3	33.4	35.3	36.3	32.4	31.4
47.5°	1504.2	1295.1	756.0	260.2	42.2	35.3	31.4	34.4	35.3	31.4	30.4
50°	1597.5	1356.9	750.1	166.9	37.3	33.4	30.4	31.4	33.4	31.4	30.4
52.5°	1679.0	1412.9	722.7	93.3	36.3	32.4	28.5	29.5	32.4	30.4	30.4
55°	1762.5	1467.9	671.6	55.0	35.3	30.4	28.5	29.5	30.4	28.5	29.5
57.5°	1838.1	1520.9	595.0	45.2	35.3	29.5	29.5	27.5	27.5	25.5	25.5
60°	1896.0	1569.0	503.7	42.2	33.4	30.4	27.5	25.5	23.6	21.6	21.6
62.5°	1942.1	1610.3	374.1	39.3	32.4	29.5	25.5	22.6	19.6	17.7	17.7
65°	1967.7	1619.1	264.1	35.3	30.4	28.5	23.6	19.6	15.7	14.7	14.7
67.5°	1938.2	1573.0	161.0	33.4	28.5	27.5	22.6	17.7	13.7	12.8	12.8
70°	1825.3	1449.2	90.3	30.4	25.5	24.5	20.6	15.7	12.8	10.8	10.8
72.5°	1638.7	1267.6	45.2	25.5	21.6	21.6	18.7	13.7	11.8	9.8	9.8
75°	1384.4	1039.8	32.4	18.7	17.7	17.7	15.7	12.8	10.8	8.8	8.8
77.5°	1014.3	685.3	26.5	15.7	12.8	12.8	13.7	11.8	9.8	7.9	7.9
80°	525.3	339.7	22.6	11.8	10.8	9.8	9.8	9.8	7.9	6.9	6.9
82.5°	232.7	130.6	14.7	8.8	8.8	7.9	7.9	7.9	6.9	5.9	5.9
85°	45.2	24.5	7.9	6.9	5.9	5.9	5.9	4.9	4.9	4.9	4.9
87.5°	3.9	3.9	3.9	3.9	3.9	2.9	2.9	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

(END OF REPORT)