

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: P507434

Luminaire Tested: **VERD-S-CA1-20-727-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-20-727-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 430mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2789 lumens  
Efficiency: N/A  
Efficacy: 119.2 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

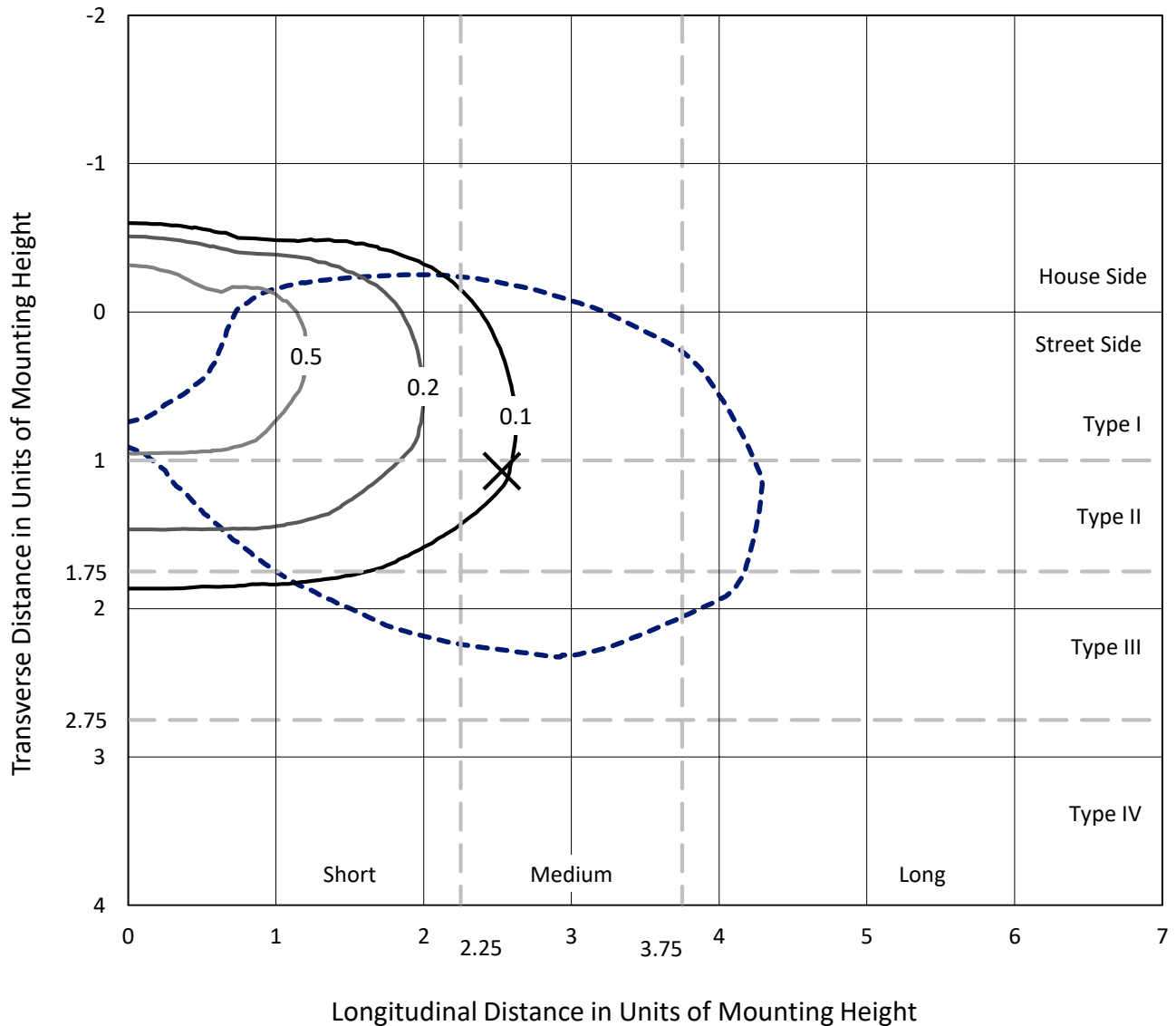
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P507434  
 CATALOG NUMBER: VERD-S-CA1-20-727-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

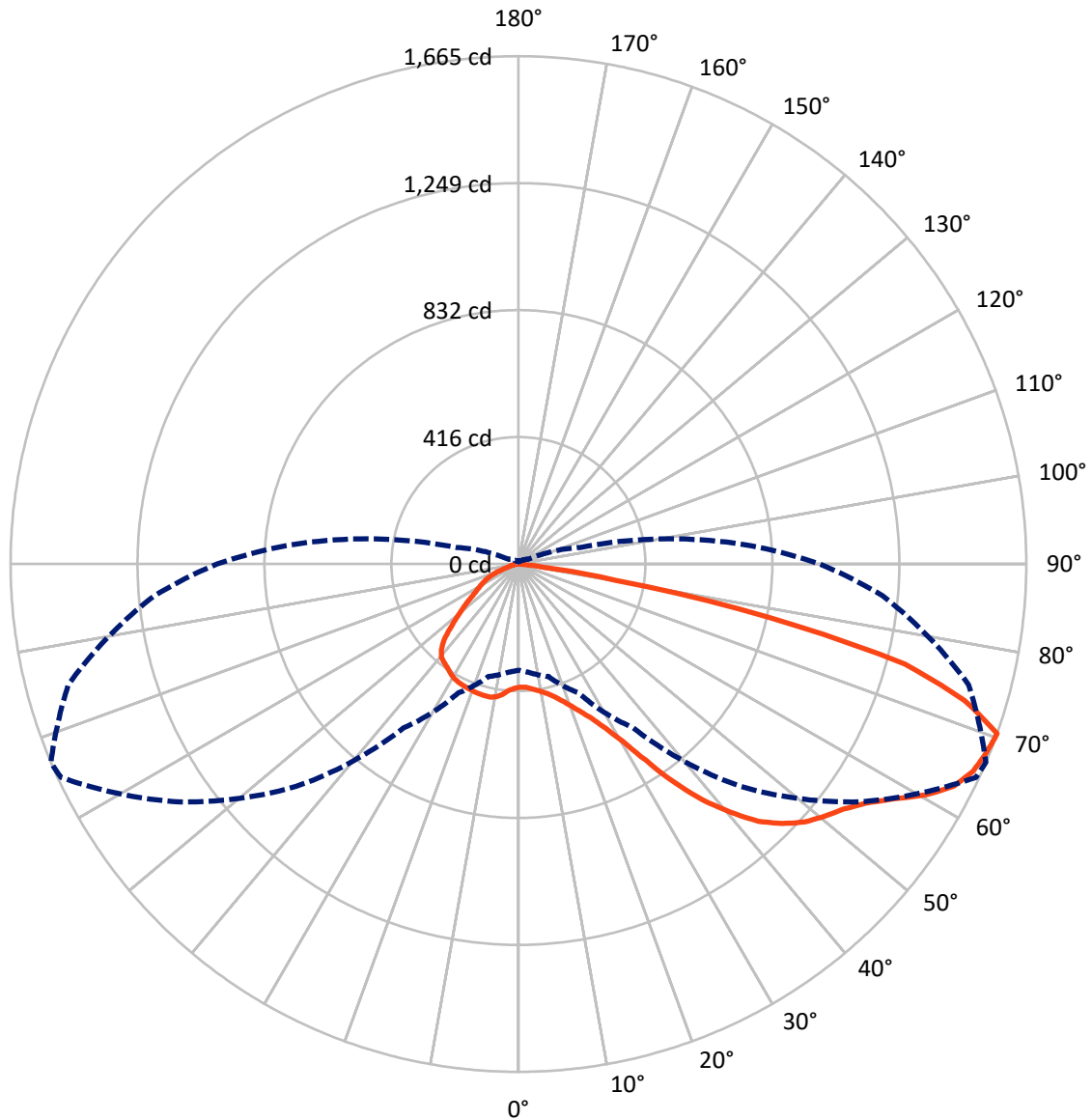
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P507434  
CATALOG NUMBER: VERD-S-CA1-20-727-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P507434  
 CATALOG NUMBER: VERD-S-CA1-20-727-U-T3-HSS

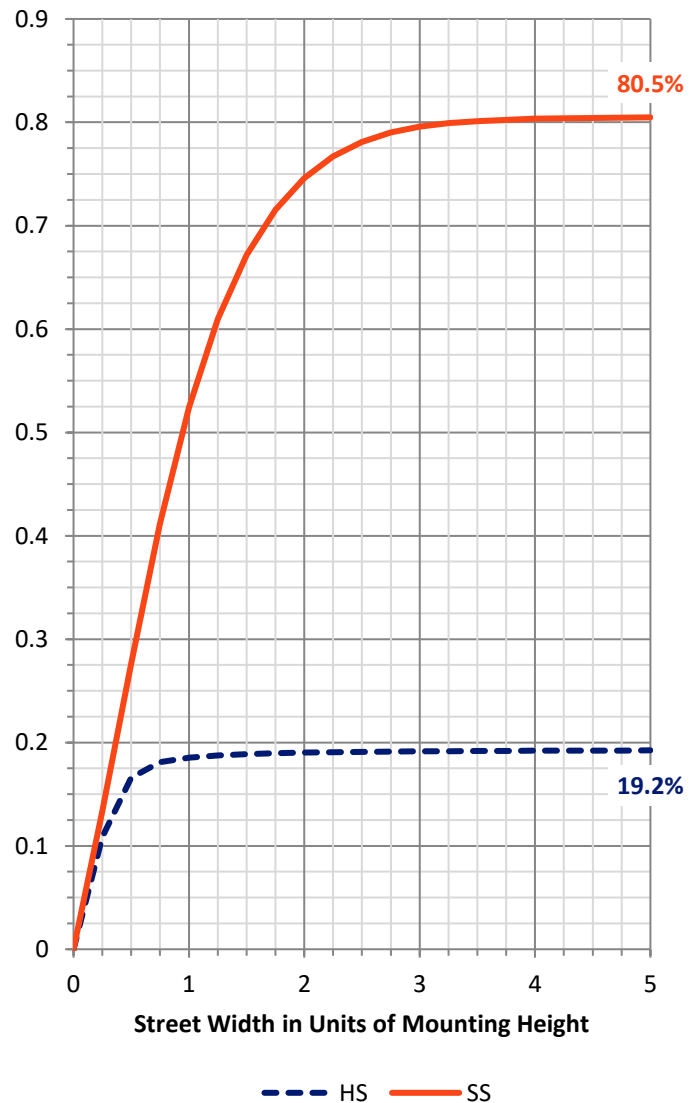
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	543.5	0.0	543.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	2245.5	0.0	2245.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	2789.0	0.0	2789.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.6	1.5
10°-20°	128.7	4.6
20°-30°	223.7	8.0
30°-40°	350.4	12.6
40°-50°	493.0	17.7
50°-60°	588.0	21.1
60°-70°	609.2	21.8
70°-80°	336.2	12.1
80°-90°	19.1	0.7
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°	2789.0	100.0
0°-180°	2789.0	100.0



REPORT NUMBER: P507434

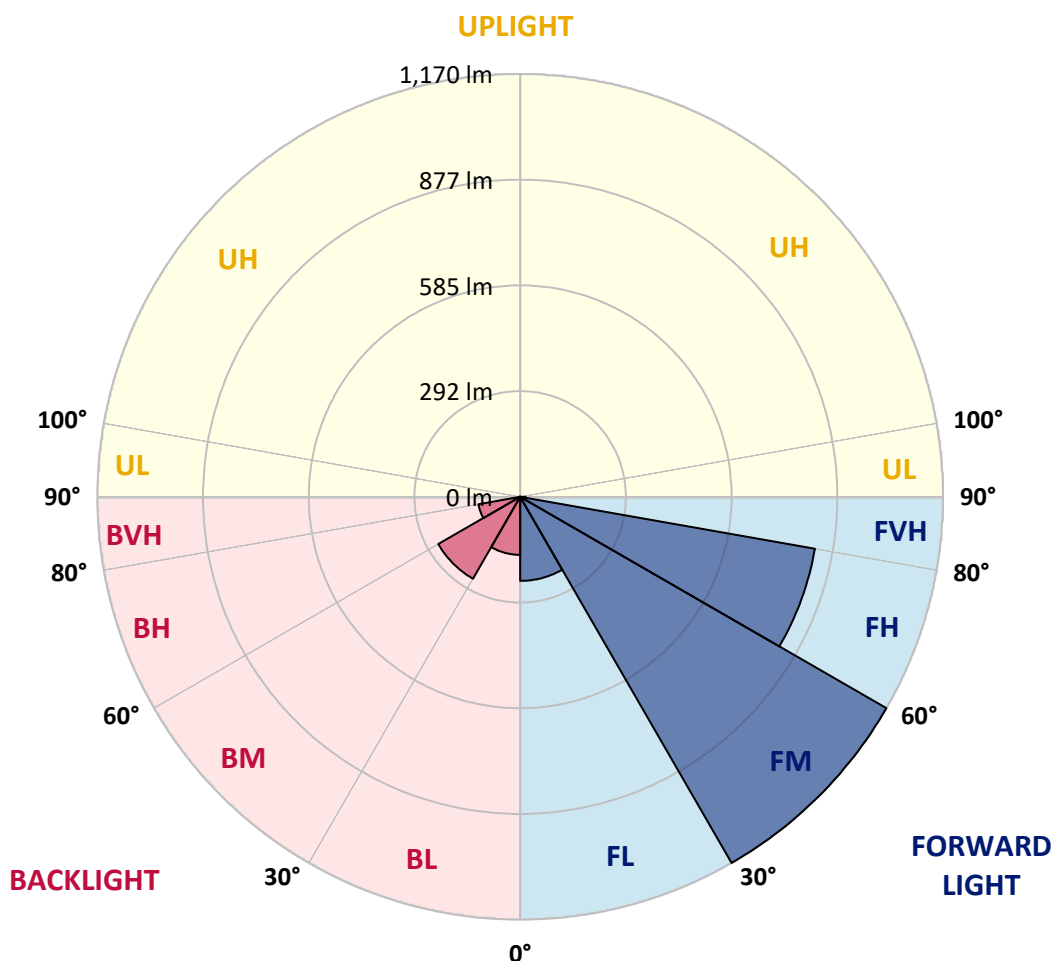
CATALOG NUMBER: VERD-S-CA1-20-727-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.6	8.3			
FM (30°-60°)	1169.8	41.9			
FH (60°-80°)	828.1	29.7			G1/1800
FVH (80°-90°)	14.9	0.5			G1/100
BL (0°-30°)	160.5	5.8	B1/500		
BM (30°-60°)	261.4	9.4	B1/1000		
BH (60°-80°)	117.3	4.2	B1/500		G1/500
BVH (80°-90°)	4.3	0.2			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 III Medium





REPORT NUMBER: P507434

CATALOG NUMBER: VERD-S-CA1-20-727-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9
2.5°	406.4	406.4	406.4	405.6	405.6	405.6	404.7	403.9	403.9	403.9	404.7
5°	417.4	417.4	416.6	415.7	414.9	412.4	410.7	409.8	409.8	409.0	410.7
7.5°	431.0	431.0	431.0	429.3	426.8	423.4	420.0	417.4	416.6	415.7	416.6
10°	451.3	451.3	449.6	447.1	442.8	437.8	431.8	426.8	425.9	424.2	425.9
12.5°	477.6	475.0	473.3	469.1	464.0	455.5	446.2	438.6	436.9	435.2	441.2
15°	504.7	503.8	499.6	497.0	488.6	477.6	464.9	454.7	453.0	449.6	454.7
17.5°	536.8	537.7	536.0	531.8	519.9	503.8	488.6	474.2	472.5	469.9	472.5
20°	580.9	579.2	575.8	569.9	556.3	535.1	515.7	499.6	497.0	495.3	492.8
22.5°	624.9	625.7	619.0	613.0	596.1	575.8	549.5	530.1	526.7	525.8	514.0
25°	667.2	668.9	666.4	658.8	644.4	618.1	589.3	565.6	561.4	560.5	540.2
27.5°	711.3	712.1	714.6	711.3	696.0	668.9	636.7	609.7	609.7	602.9	572.4
30°	753.6	755.3	757.0	757.0	749.4	725.7	697.7	674.0	674.0	668.9	616.4
32.5°	786.6	787.5	797.6	806.1	806.1	789.2	770.5	768.0	767.1	776.5	717.2
35°	816.3	818.8	833.2	856.1	865.4	858.6	859.4	868.8	878.1	900.9	856.1
37.5°	838.3	841.7	855.2	881.5	907.7	925.5	942.4	967.8	982.2	1016.9	955.1
40°	844.2	848.4	877.2	914.5	956.8	997.5	1027.9	1059.3	1068.6	1093.1	1015.2
42.5°	825.6	829.8	866.2	941.6	1000.8	1064.4	1097.4	1137.2	1153.3	1143.9	1065.2
45°	812.9	815.4	853.5	939.0	1039.0	1129.6	1161.7	1203.2	1213.4	1191.4	1106.7
47.5°	796.8	799.3	839.1	935.6	1070.3	1185.4	1207.5	1253.2	1263.3	1229.5	1142.3
50°	773.1	774.8	820.5	928.9	1090.6	1225.2	1249.8	1295.5	1299.7	1265.0	1176.1
52.5°	744.3	749.4	793.4	912.8	1105.0	1249.8	1279.4	1328.5	1334.5	1310.8	1213.4
55°	705.3	711.3	762.1	889.1	1099.9	1258.3	1293.0	1372.6	1382.7	1363.3	1244.7
57.5°	665.5	674.0	724.0	856.1	1079.6	1271.0	1337.8	1437.8	1451.3	1414.9	1270.1
60°	624.9	628.3	679.9	811.2	1045.7	1283.7	1388.7	1523.3	1536.0	1465.7	1290.4
62.5°	578.3	582.6	628.3	749.4	987.3	1271.8	1426.8	1595.3	1602.9	1508.0	1298.9
65°	524.1	524.1	563.1	674.0	908.6	1229.5	1431.8	1632.5	1637.6	1535.1	1288.7
67.5°	448.8	452.2	483.5	580.9	802.7	1146.5	1403.0	1641.0	1653.7	1552.1	1260.8
70°	348.0	355.6	381.9	465.7	655.4	1031.3	1359.9	1654.5	1664.7	1527.5	1198.1
72.5°	237.9	245.6	269.3	319.2	472.5	827.3	1230.3	1526.7	1529.2	1408.1	1076.2
75°	62.7	69.4	88.1	127.9	198.1	556.3	983.9	1293.0	1308.2	1217.6	888.2
77.5°	18.6	18.6	22.9	29.6	40.6	113.5	500.4	823.9	839.1	802.7	553.8
80°	14.4	14.4	16.9	20.3	26.2	58.4	173.6	304.0	322.6	344.6	228.6
82.5°	9.3	10.2	11.0	11.9	11.9	23.7	46.6	77.9	77.1	83.8	73.7
85°	5.9	5.9	5.1	5.1	4.2	5.9	4.2	5.1	5.9	5.9	6.8
87.5°	0.8	0.0	0.0	0.0	0.0	0.8	0.8	1.7	1.7	1.7	2.5
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: P507434

CATALOG NUMBER: VERD-S-CA1-20-727-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9
2.5°	405.6	406.4	407.3	408.1	409.8	409.8	410.7	410.7	410.7	410.7	410.7
5°	410.7	411.5	414.1	416.6	422.5	425.9	429.3	431.8	431.8	433.5	433.5
7.5°	418.3	420.8	428.5	431.8	436.9	442.0	444.5	445.4	447.1	447.1	447.1
10°	431.0	433.5	439.5	442.0	444.5	444.5	443.7	442.8	440.3	439.5	440.3
12.5°	442.8	446.2	446.2	445.4	442.8	439.5	435.2	431.0	426.8	423.4	423.4
15°	457.2	455.5	450.5	443.7	436.9	428.5	420.0	412.4	405.6	403.0	403.0
17.5°	469.9	465.7	454.7	442.0	427.6	414.1	400.5	387.8	376.0	371.7	369.2
20°	485.2	477.6	458.1	438.6	418.3	397.1	374.3	351.4	331.1	322.6	321.8
22.5°	503.0	490.3	463.2	433.5	406.4	374.3	336.2	304.0	283.7	273.5	271.8
25°	524.1	505.5	468.2	429.3	392.0	344.6	293.8	257.4	232.0	221.0	216.8
27.5°	550.4	525.8	475.0	424.2	370.0	308.2	250.6	208.3	180.4	166.8	165.1
30°	584.3	550.4	481.8	416.6	342.9	265.9	204.1	156.6	128.7	115.2	111.8
32.5°	662.2	600.3	490.3	403.9	309.1	225.2	154.1	105.0	77.1	64.4	63.5
35°	794.2	713.0	509.7	387.0	275.2	177.0	99.1	55.9	41.5	36.4	36.4
37.5°	893.3	806.9	562.2	364.9	231.2	118.5	50.8	33.0	26.2	25.4	25.4
40°	952.6	862.8	619.8	340.4	178.7	63.5	31.3	25.4	23.7	22.9	22.9
42.5°	1001.7	909.4	646.9	309.9	113.5	35.6	26.2	23.7	22.0	21.2	21.2
45°	1042.3	945.0	650.3	271.0	63.5	29.6	24.6	21.2	20.3	19.5	19.5
47.5°	1074.5	975.4	641.8	215.9	39.8	27.9	22.9	19.5	17.8	17.8	17.8
50°	1105.0	1001.7	618.1	170.2	37.3	26.2	21.2	17.8	16.9	16.9	16.9
52.5°	1132.9	1020.3	578.3	137.2	34.7	24.6	20.3	16.9	15.2	16.1	16.1
55°	1155.8	1027.9	537.7	105.8	33.0	23.7	19.5	16.1	14.4	14.4	14.4
57.5°	1168.5	1011.9	503.8	80.4	32.2	22.9	18.6	15.2	12.7	11.9	11.9
60°	1169.3	990.7	472.5	67.7	30.5	21.2	17.8	13.5	11.0	10.2	10.2
62.5°	1154.1	965.3	425.1	58.4	28.8	20.3	16.1	12.7	10.2	9.3	9.3
65°	1124.5	920.4	372.6	50.0	27.9	20.3	14.4	11.9	10.2	8.5	8.5
67.5°	1077.1	845.9	302.3	44.0	26.2	18.6	14.4	11.0	9.3	8.5	8.5
70°	987.3	739.2	209.1	38.1	24.6	16.9	13.5	11.0	9.3	7.6	7.6
72.5°	851.0	600.3	103.3	31.3	21.2	16.9	13.5	10.2	8.5	7.6	7.6
75°	657.9	430.1	62.7	25.4	16.9	15.2	12.7	10.2	8.5	6.8	6.8
77.5°	387.0	191.4	44.9	19.5	12.7	11.9	11.0	9.3	7.6	6.8	6.8
80°	141.4	81.3	33.0	15.2	10.2	10.2	8.5	7.6	6.8	5.9	5.9
82.5°	55.0	43.2	22.0	11.0	8.5	7.6	6.8	5.9	5.1	5.1	5.1
85°	7.6	7.6	7.6	5.9	5.1	5.1	4.2	4.2	3.4	3.4	3.4
87.5°	2.5	2.5	2.5	3.4	2.5	2.5	1.7	1.7	1.7	2.5	2.5
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)