

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: P234043

Luminaire Tested: **VERD-C013-D-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C013-D-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 560mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2790 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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: 28.75 FT

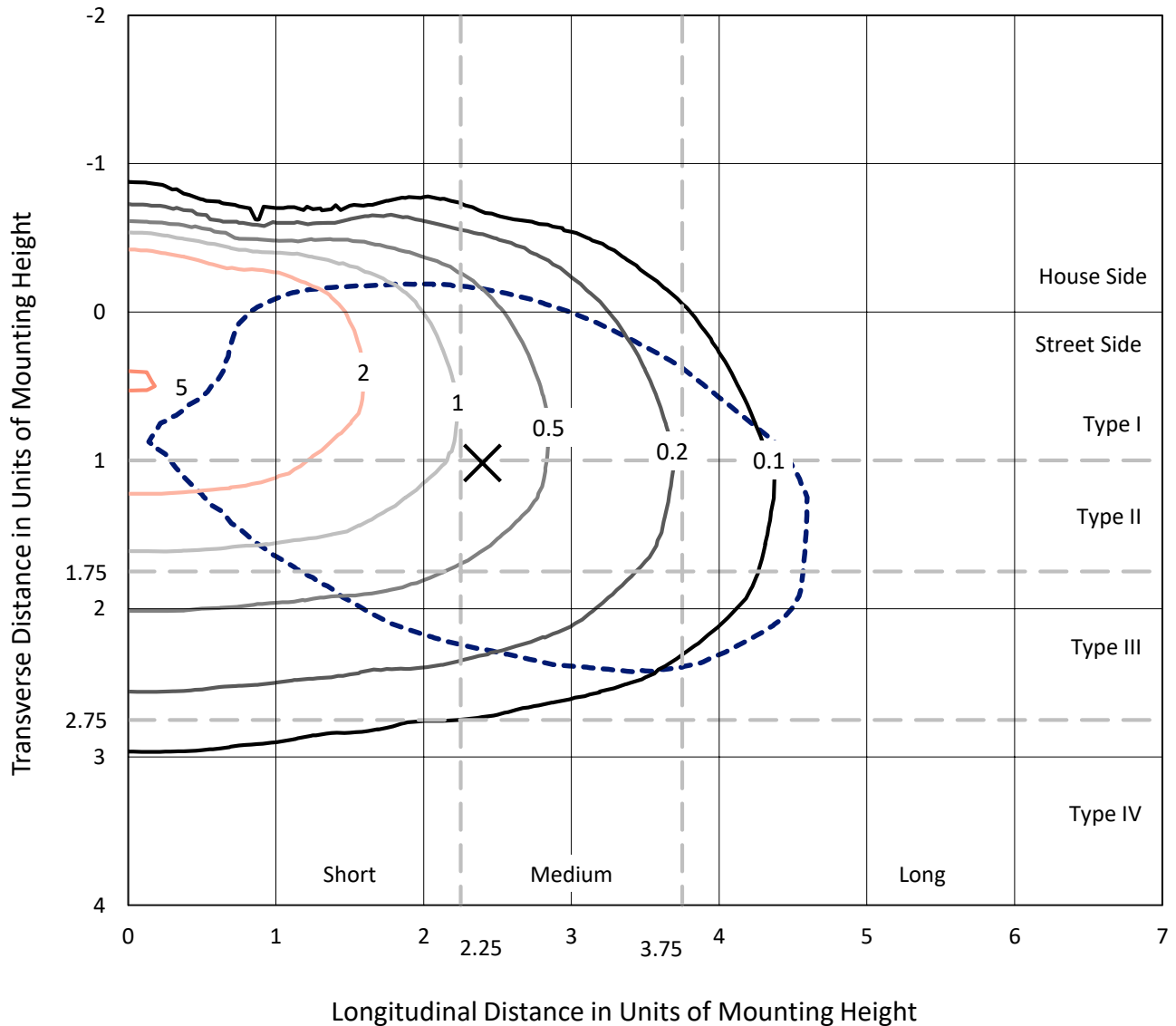


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

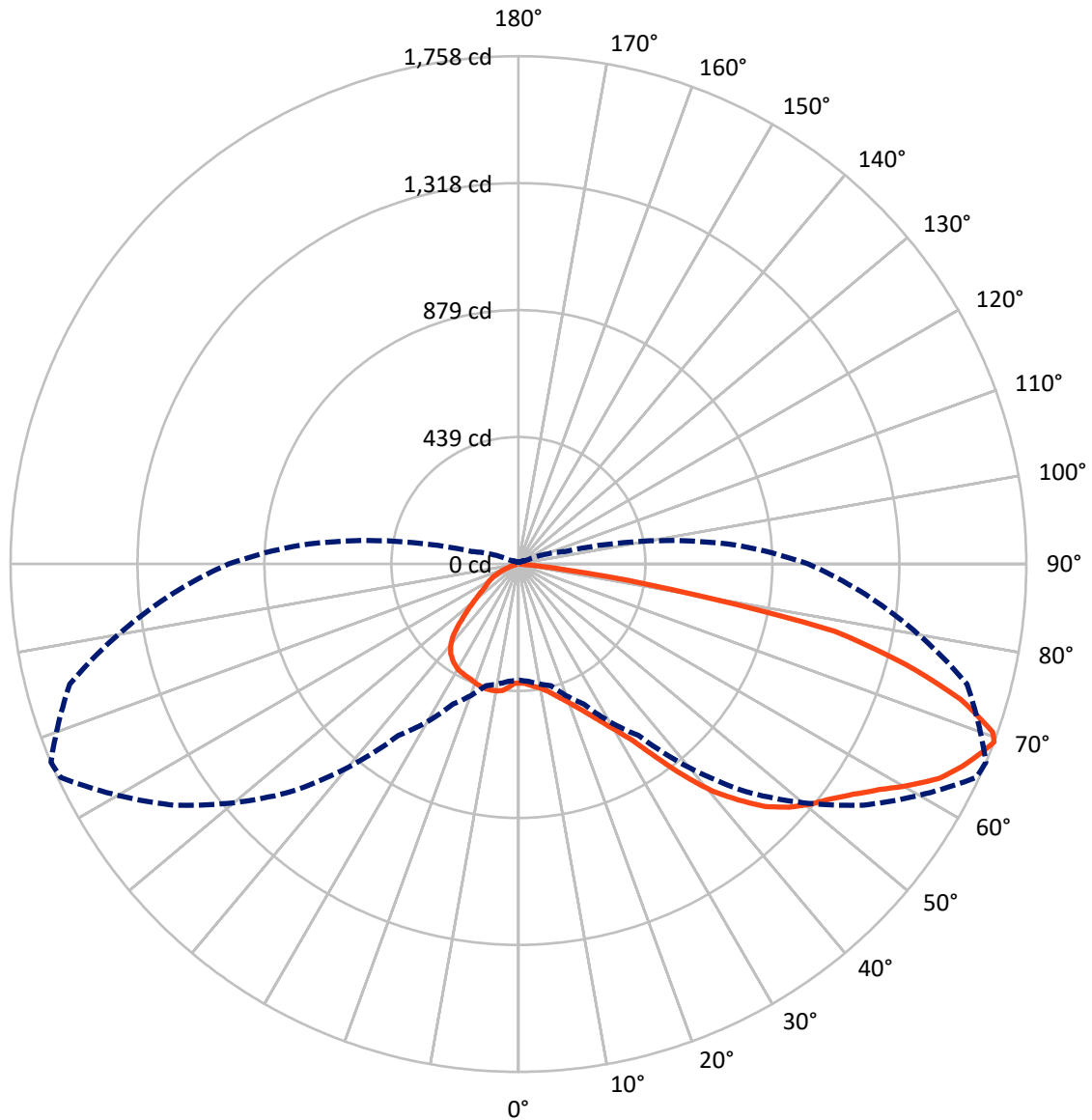


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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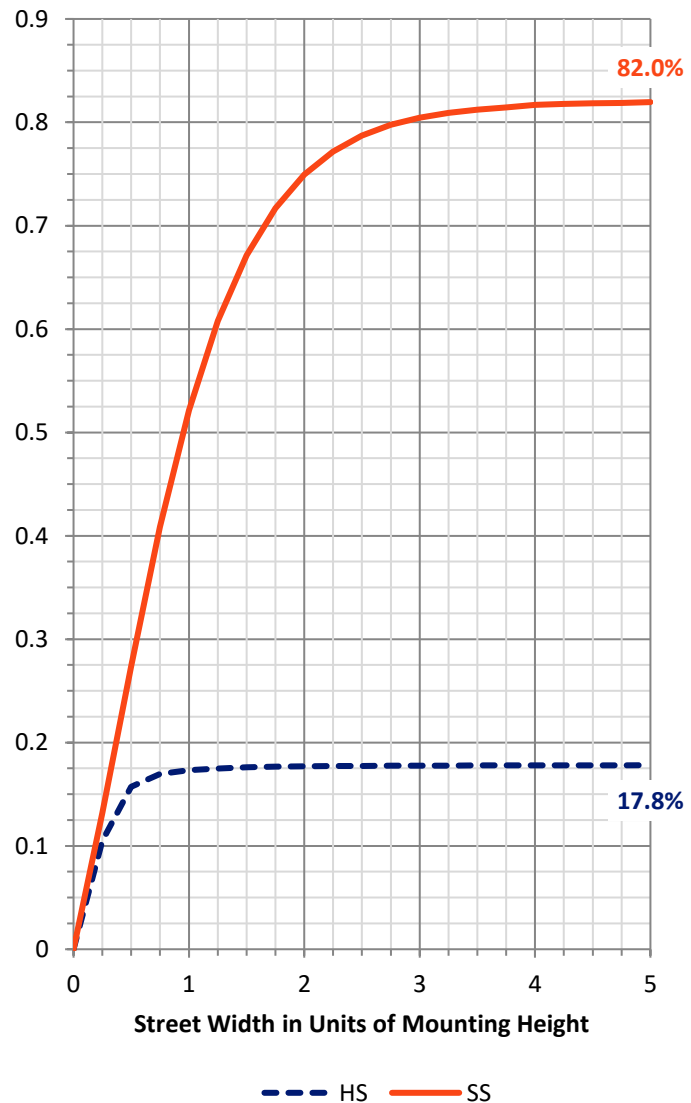
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	503.0	0.0	503.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	2287.0	0.0	2287.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	2790.0	0.0	2790.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	1.5
10°-20°	131.0	4.7
20°-30°	223.6	8.0
30°-40°	338.0	12.1
40°-50°	477.5	17.1
50°-60°	577.1	20.7
60°-70°	608.9	21.8
70°-80°	366.6	13.1
80°-90°	25.6	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°	2790.0	100.0
0°-180°	2790.0	100.0



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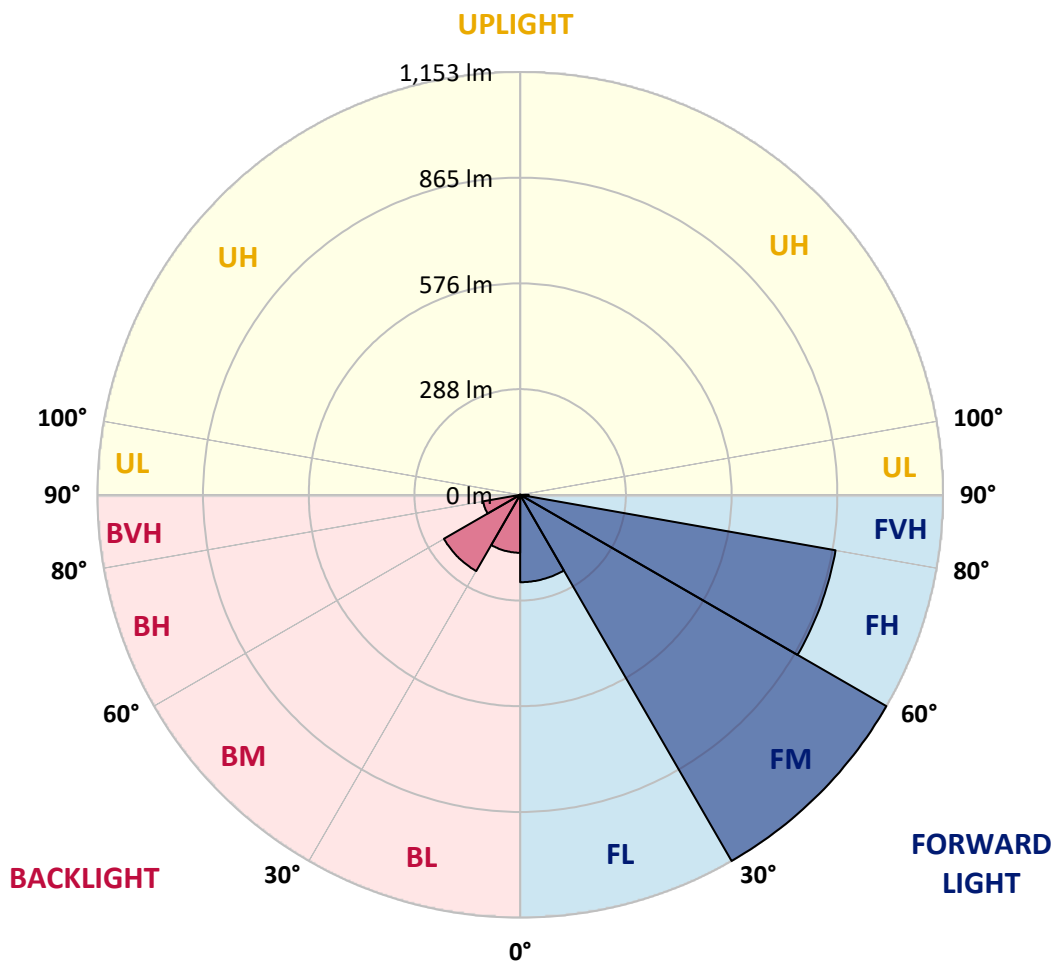
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.2	8.5			
FM	(30°-60°)	1152.7	41.3			
FH	(60°-80°)	873.0	31.3			G1/1800
FVH	(80°-90°)	23.1	0.8			G1/100
BL	(0°-30°)	158.0	5.7	B1/500		
BM	(30°-60°)	240.0	8.6	B1/1000		
BH	(60°-80°)	102.5	3.7	B0/110		G0/110
BVH	(80°-90°)	2.5	0.1			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6
2.5°	423.3	422.6	422.6	418.8	415.3	414.4	414.2	413.0	413.3	411.7	410.2
5°	435.5	435.5	435.1	430.2	426.4	423.9	422.4	420.4	420.6	419.5	418.2
7.5°	453.9	454.2	453.3	446.8	443.1	437.1	433.5	429.7	429.5	428.2	428.6
10°	476.6	477.3	476.0	467.7	461.3	453.1	445.5	438.8	438.4	436.8	438.2
12.5°	502.2	503.1	499.7	491.3	484.0	471.1	462.0	453.1	451.7	451.5	452.4
15°	531.5	532.0	530.9	518.4	509.5	497.7	482.8	471.5	470.2	470.4	469.3
17.5°	564.2	565.3	562.9	551.8	540.0	523.8	506.0	492.0	491.3	490.6	485.7
20°	598.9	600.0	598.4	588.0	574.0	553.5	531.8	515.7	515.5	514.0	502.6
22.5°	638.0	639.6	638.7	626.0	611.1	588.9	561.8	545.1	544.6	539.8	522.6
25°	680.5	680.0	680.9	667.4	653.4	630.0	596.4	579.1	579.1	573.1	547.8
27.5°	721.6	721.4	722.9	713.4	698.7	676.7	636.2	618.7	620.2	611.6	578.0
30°	761.6	761.6	765.4	759.2	748.3	725.2	685.6	667.1	669.1	660.0	616.2
32.5°	799.0	800.7	807.2	803.4	795.2	774.3	740.5	723.6	728.3	732.1	687.4
35°	826.5	828.3	843.2	844.5	842.5	828.5	803.4	814.3	819.9	849.7	799.9
37.5°	850.8	853.0	870.8	881.9	888.3	879.7	881.2	917.7	928.1	963.2	895.9
40°	868.5	873.4	891.0	906.3	929.0	939.2	964.6	1016.4	1033.3	1047.3	961.9
42.5°	856.3	859.7	890.6	931.7	964.8	1000.8	1041.9	1103.5	1116.2	1111.7	1020.2
45°	838.3	842.3	874.8	938.4	993.3	1065.1	1115.3	1182.0	1196.4	1171.8	1070.4
47.5°	818.1	823.6	858.8	929.5	1017.0	1124.2	1181.8	1249.4	1257.8	1225.3	1112.6
50°	797.6	803.9	843.6	922.1	1035.5	1173.6	1230.2	1304.3	1306.7	1269.8	1150.7
52.5°	770.1	776.5	820.1	906.8	1048.4	1206.0	1272.7	1349.4	1351.0	1317.8	1186.7
55°	735.2	743.4	789.4	884.1	1051.5	1224.9	1299.6	1396.3	1406.7	1369.8	1216.2
57.5°	694.0	701.6	752.3	851.4	1035.9	1231.3	1337.2	1458.3	1472.8	1422.5	1240.7
60°	646.7	655.4	706.3	809.2	1004.6	1249.4	1399.4	1545.9	1554.6	1477.7	1262.3
62.5°	598.2	604.4	650.7	749.8	955.7	1260.2	1454.5	1628.2	1633.9	1530.8	1275.1
65°	529.3	537.1	582.2	681.8	885.2	1239.4	1475.7	1684.4	1688.0	1575.3	1268.9
67.5°	454.4	460.6	493.5	599.8	792.7	1173.1	1467.0	1722.0	1733.3	1609.9	1240.7
69°	401.3	407.5	435.9	534.2	724.0	1114.4	1454.8	1747.5	1757.5	1607.5	1204.7
70°	359.9	366.1	393.0	485.3	670.3	1064.8	1435.4	1734.6	1741.1	1580.1	1169.5
72.5°	257.4	263.7	285.7	341.2	507.7	875.2	1315.6	1591.5	1600.2	1448.8	1045.3
75°	134.7	149.6	189.2	220.5	300.8	616.2	1093.7	1368.7	1381.4	1271.4	859.7
77.5°	17.3	18.2	53.4	89.6	124.3	259.9	777.0	1099.1	1119.1	1017.5	594.4
80°	14.0	14.2	18.5	44.7	61.8	105.4	275.7	514.4	538.6	452.2	218.5
82.5°	9.8	10.2	14.4	23.6	20.2	38.5	95.8	145.4	149.8	129.6	87.1
85°	5.6	5.6	6.9	9.1	6.4	14.4	19.8	21.1	18.9	18.7	14.0
87.5°	1.6	1.8	2.0	1.6	0.7	0.7	0.9	0.9	0.9	0.7	0.7
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°	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6
2.5°	412.6	412.2	412.4	413.3	414.6	419.5	422.8	423.3	424.8	430.6	429.9
5°	419.7	422.4	423.9	428.6	431.7	438.4	442.4	442.8	445.1	451.1	451.3
7.5°	429.7	434.2	436.4	441.7	442.8	445.9	447.1	445.9	446.2	451.5	451.9
10°	438.4	443.9	443.9	445.3	443.3	443.5	439.9	436.6	434.8	439.5	440.6
12.5°	451.7	453.3	449.7	445.7	439.7	434.4	428.4	423.0	418.8	421.5	419.9
15°	465.5	463.1	454.4	443.9	433.3	424.2	411.7	403.9	396.6	398.1	396.8
17.5°	479.3	471.3	457.7	440.4	424.8	407.5	390.1	377.9	364.6	363.5	361.5
20°	492.6	481.1	458.6	433.1	411.3	386.8	359.9	339.0	319.2	314.1	310.8
22.5°	508.6	492.0	459.7	425.9	396.6	363.2	322.6	290.1	268.8	261.7	258.3
25°	529.1	507.1	462.8	420.6	381.7	334.1	278.3	241.2	218.1	205.9	204.7
27.5°	553.3	525.3	468.2	413.7	360.6	295.2	232.5	193.9	169.2	156.7	152.7
30°	585.1	548.0	473.1	408.4	330.8	252.8	184.5	141.4	112.0	104.0	99.8
32.5°	645.4	584.9	479.3	395.9	295.7	206.3	130.7	87.1	67.1	61.8	61.8
35°	743.4	666.0	494.9	378.8	253.4	150.3	78.5	48.9	40.0	36.9	35.3
37.5°	831.9	747.8	533.8	352.4	202.1	88.9	44.9	30.2	27.3	27.8	27.8
40°	894.3	803.9	576.7	316.6	137.2	47.6	28.5	24.2	24.7	24.9	24.9
42.5°	947.9	851.7	600.2	274.1	74.7	30.9	24.5	22.0	22.7	22.5	22.2
45°	992.8	890.6	608.0	215.6	36.2	27.3	22.2	20.2	20.2	20.0	20.0
47.5°	1031.3	925.0	593.6	160.3	29.3	25.1	21.1	18.7	18.5	19.6	19.6
50°	1066.4	951.7	557.5	121.4	28.5	23.1	20.0	17.3	17.6	19.1	19.1
52.5°	1095.7	967.5	504.2	90.9	26.5	21.3	18.5	16.2	16.2	17.8	17.8
55°	1117.5	967.5	463.5	68.0	25.3	19.6	17.1	15.6	14.7	15.1	15.3
57.5°	1128.4	949.2	430.8	55.1	24.0	17.8	15.8	13.6	12.0	12.4	12.2
60°	1125.5	938.8	393.3	49.1	22.5	16.5	14.0	11.6	10.0	9.6	9.6
62.5°	1120.2	927.0	346.4	42.7	20.9	15.3	11.6	9.3	8.4	8.0	8.2
65°	1100.0	888.8	287.0	35.6	19.3	14.9	9.8	8.2	7.3	6.9	6.9
67.5°	1051.1	819.9	217.0	30.0	18.0	12.0	8.4	7.1	6.2	5.8	5.8
69°	1002.6	754.1	166.5	27.3	17.1	10.9	7.8	6.4	5.8	5.1	5.1
70°	960.8	703.2	130.5	25.6	16.5	10.4	7.6	6.2	5.6	4.9	4.9
72.5°	818.1	557.8	66.2	22.2	13.8	9.1	6.7	5.6	4.7	4.0	4.0
75°	634.7	384.4	43.8	17.6	10.7	8.2	6.0	4.9	4.0	3.3	3.1
77.5°	381.9	150.3	31.3	11.3	6.9	6.4	4.9	4.0	3.3	2.7	2.7
80°	105.4	64.5	21.1	7.6	4.0	4.2	3.6	2.9	2.4	2.0	2.0
82.5°	63.4	41.8	14.0	4.9	2.7	2.7	2.0	2.0	1.6	1.6	1.6
85°	10.9	8.4	3.3	2.0	1.6	1.6	1.1	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.9	0.9	0.7	0.4	0.2	0.0	0.0	0.0
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)