

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: P129297

Luminaire Tested: **VERD-A016-E-U-T2-7030-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P129297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24744)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-A016-E-U-T2-7030-AP  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K LED AT 60% STANDARD LUMENS AND TYPE II OPTICS, GREY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3773 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

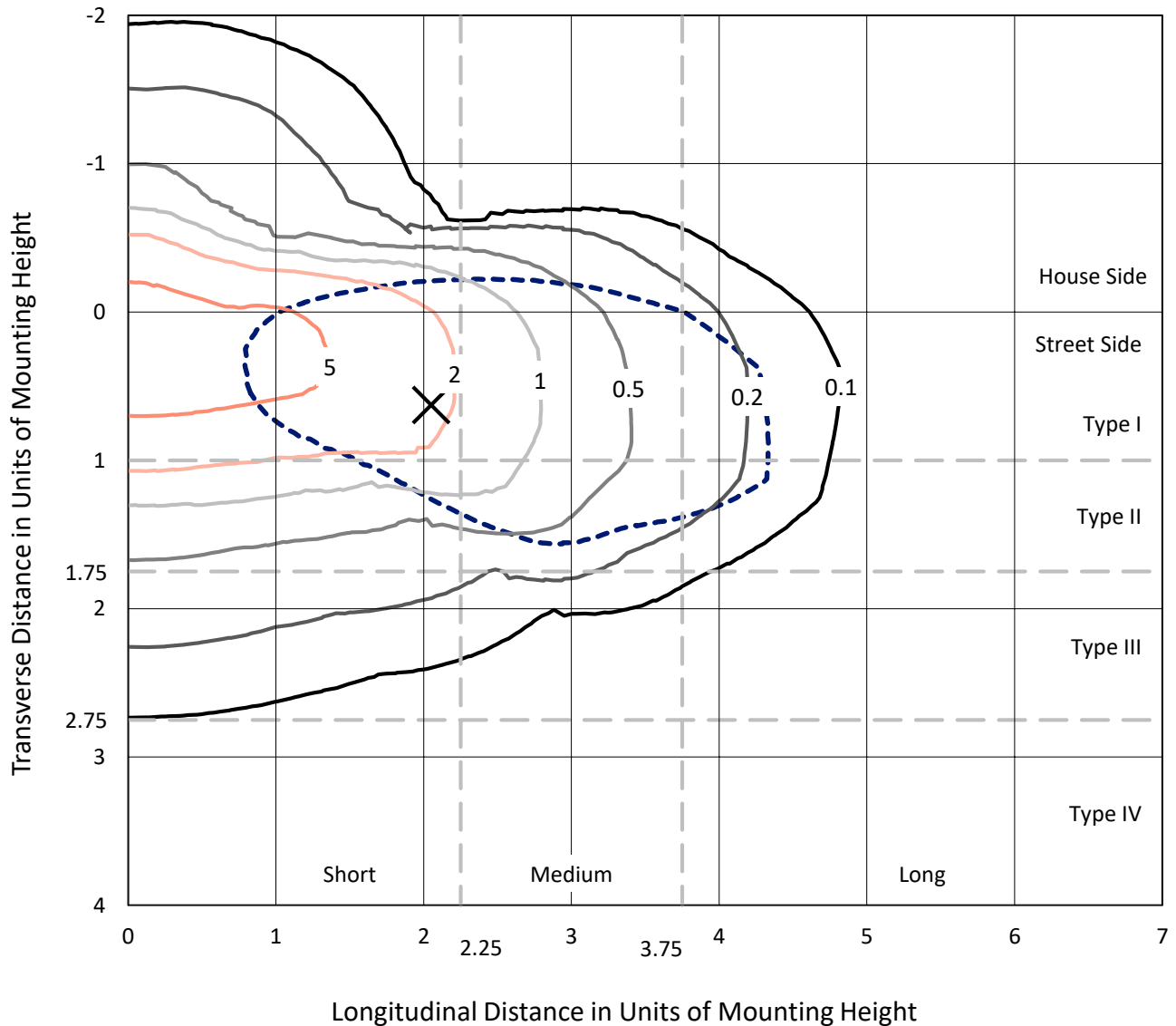
Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

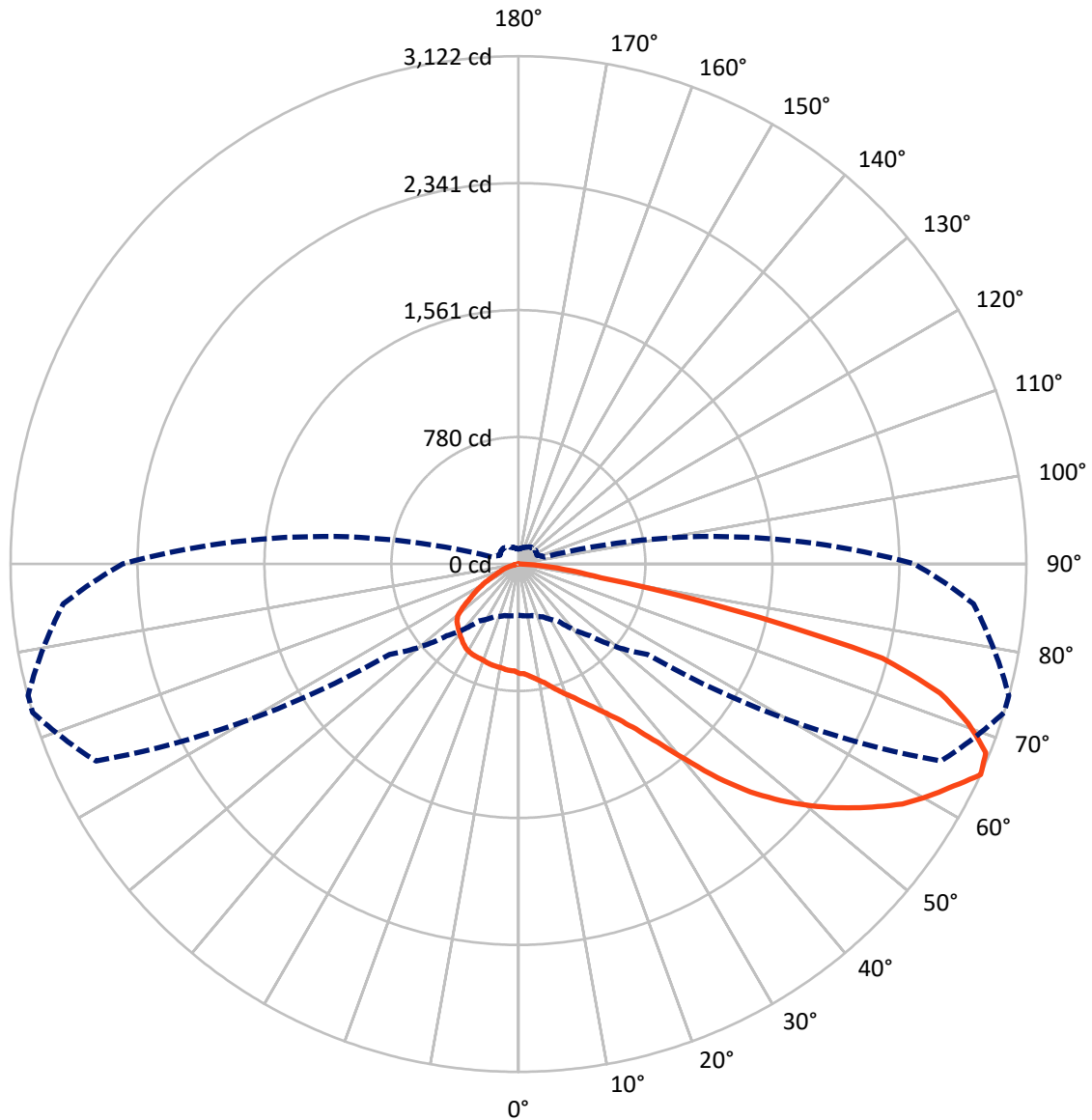


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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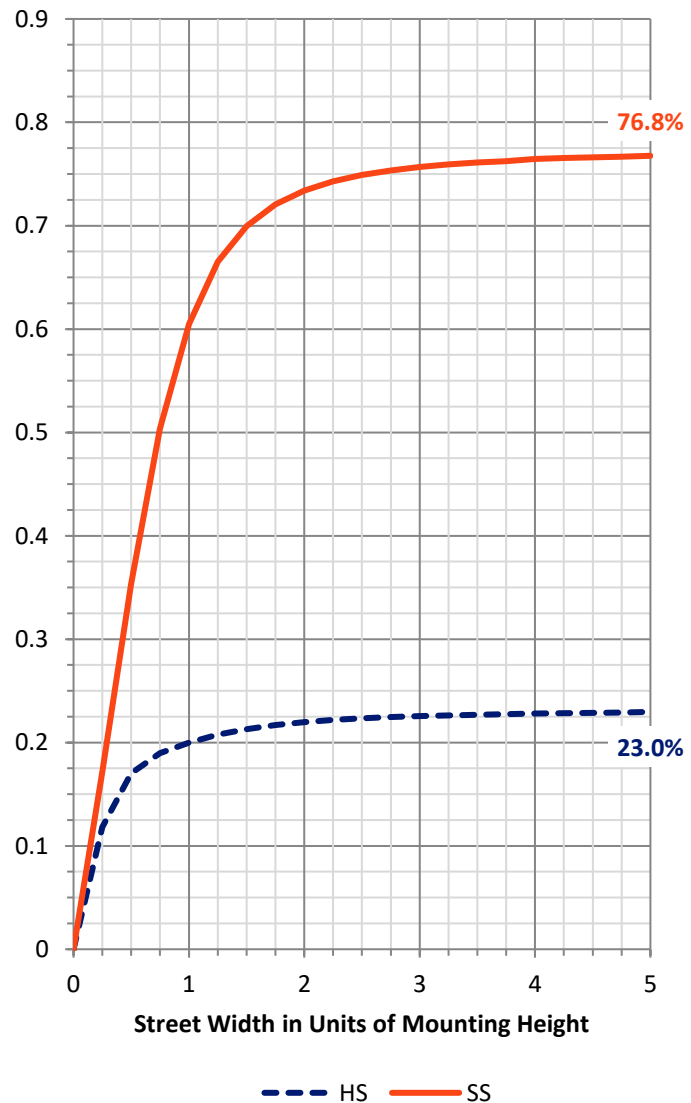
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	878.8	0.0	878.8
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	2894.2	0.0	2894.2
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	3773.0	0.0	3773.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.0	1.7
10°-20°	202.0	5.4
20°-30°	339.2	9.0
30°-40°	464.6	12.3
40°-50°	619.9	16.4
50°-60°	744.6	19.7
60°-70°	792.3	21.0
70°-80°	491.0	13.0
80°-90°	54.4	1.4
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°	3773.0	100.0
0°-180°	3773.0	100.0



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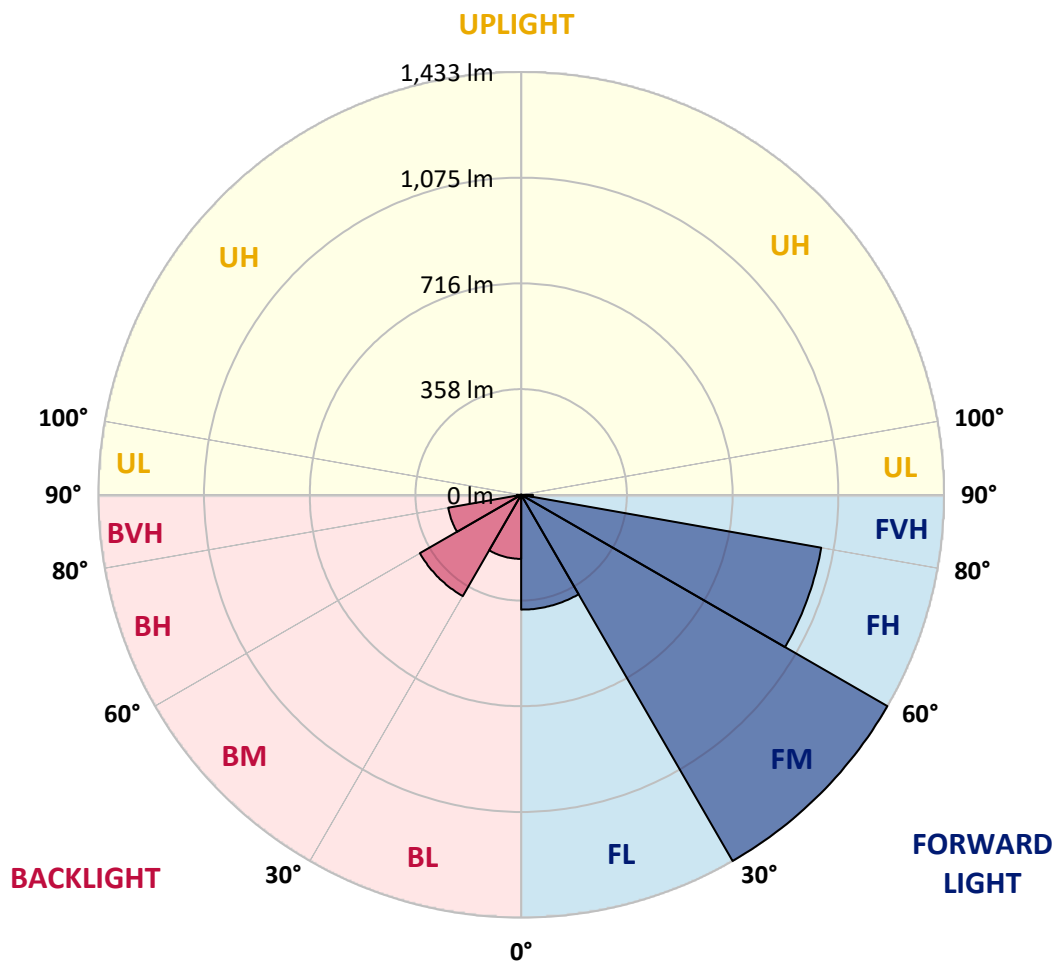
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.1	10.3			
FM	(30°-60°)	1432.8	38.0			
FH	(60°-80°)	1032.4	27.4			G1/1800
FVH	(80°-90°)	39.9	1.1			G1/100
BL	(0°-30°)	217.1	5.8	B1/500		
BM	(30°-60°)	396.2	10.5	B1/1000		
BH	(60°-80°)	250.9	6.7	B1/500		G1/500
BVH	(80°-90°)	14.5	0.4			G1/100
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°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	715.7	714.1	714.5	712.9	708.0	702.7	692.6	684.1	675.1	673.5	669.4
5°	750.6	749.8	750.2	747.8	740.5	731.2	716.5	702.7	690.1	686.9	679.6
7.5°	783.1	783.1	782.3	778.2	769.7	757.9	743.7	725.9	708.8	704.4	692.6
10°	829.0	827.0	826.6	819.7	804.2	788.0	771.3	751.0	729.1	722.6	701.5
12.5°	876.9	874.9	875.7	865.9	848.9	822.1	804.6	780.7	753.9	747.0	718.6
15°	924.8	921.1	922.4	913.8	896.4	872.0	843.2	816.4	787.2	779.1	738.9
17.5°	962.6	960.1	962.6	956.5	940.6	917.9	884.6	856.2	821.7	812.8	761.2
20°	988.1	988.5	993.8	992.2	980.8	959.7	927.2	896.8	856.6	846.9	786.4
22.5°	1003.2	1004.8	1016.5	1026.7	1023.0	998.7	972.7	938.6	896.4	886.6	814.4
25°	1007.2	1009.6	1032.8	1059.2	1062.8	1043.7	1021.4	984.1	945.5	934.9	850.5
27.5°	1016.5	1018.6	1041.7	1071.8	1094.1	1085.6	1070.5	1034.0	999.5	987.7	891.5
30°	1005.6	1007.2	1032.4	1072.2	1111.5	1123.7	1120.1	1091.2	1064.5	1051.1	935.4
32.5°	950.8	957.7	993.0	1060.0	1125.8	1161.1	1170.8	1158.2	1141.2	1126.2	988.1
35°	897.6	902.5	947.9	1031.6	1124.5	1192.3	1227.7	1246.7	1245.1	1230.1	1073.4
37.5°	854.2	859.8	896.8	990.6	1113.2	1222.4	1291.4	1358.8	1389.2	1379.9	1221.2
40°	802.6	809.5	843.2	936.2	1086.4	1241.0	1371.0	1484.2	1574.8	1580.0	1409.9
42.5°	738.1	749.0	779.5	866.7	1047.8	1251.6	1450.1	1623.1	1796.4	1799.7	1586.1
45°	680.8	689.7	718.6	793.7	992.2	1252.4	1522.0	1773.3	1997.8	1994.9	1744.5
47.5°	626.0	637.8	666.6	732.0	915.9	1235.8	1578.0	1925.1	2172.8	2167.5	1904.0
50°	479.0	492.8	593.5	674.3	826.6	1189.9	1617.4	2081.0	2337.2	2330.7	2055.4
52.5°	433.6	436.4	466.5	610.2	759.6	1101.8	1627.9	2243.4	2489.8	2477.2	2189.4
55°	410.8	410.8	425.1	502.2	675.9	964.6	1595.5	2400.1	2637.2	2623.0	2324.6
57.5°	382.8	383.6	403.9	440.1	595.2	833.5	1507.8	2554.4	2782.5	2767.5	2455.7
60°	360.1	361.3	380.0	410.8	514.4	725.9	1335.2	2687.5	2897.0	2880.8	2589.7
62.5°	340.2	341.4	354.4	386.5	470.5	668.6	1155.4	2761.8	3004.2	2996.9	2715.1
65°	315.0	319.1	328.0	357.7	427.9	623.2	968.2	2865.3	3121.5	3120.3	2807.7
67.5°	283.4	287.0	295.5	322.3	387.3	570.8	855.0	2946.5	3098.4	3097.6	2797.5
70°	245.6	245.6	258.2	283.0	337.8	505.0	751.9	2724.5	2933.5	2927.9	2605.9
72.5°	203.8	204.2	216.8	241.6	285.4	419.8	578.5	2323.0	2710.3	2723.7	2310.4
75°	175.4	175.8	186.7	209.5	242.4	333.7	405.6	1241.0	2310.8	2321.3	1944.6
77.5°	104.7	102.7	117.3	134.4	153.9	192.0	250.1	629.7	1319.8	1524.4	1421.7
80°	26.0	26.8	71.9	85.7	94.2	87.3	112.0	252.9	516.4	594.3	811.5
82.5°	14.6	16.2	43.0	53.2	51.6	26.0	38.2	124.6	293.5	330.5	388.1
85°	6.9	7.7	15.0	21.5	17.1	16.2	13.8	53.6	155.1	179.4	190.4
87.5°	3.7	3.7	6.9	8.5	7.7	7.7	5.7	4.1	2.8	3.2	2.4
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°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	669.0	666.2	659.3	652.0	649.6	645.1	645.1	644.3	641.8	638.2	633.3
5°	675.5	670.3	659.3	646.7	637.0	626.8	622.4	618.3	614.6	608.1	603.7
7.5°	683.2	674.3	656.9	637.8	619.9	606.1	598.0	591.5	586.2	581.8	577.7
10°	689.3	675.1	651.2	626.8	602.1	582.6	571.6	563.9	557.8	556.6	552.1
12.5°	701.9	680.8	649.6	619.9	589.1	567.5	551.3	537.1	531.8	526.1	524.1
15°	719.0	692.6	649.6	611.8	575.7	547.2	527.8	515.2	500.6	498.1	492.0
17.5°	736.0	703.5	647.1	598.0	555.8	522.1	496.5	482.7	474.2	460.0	455.9
20°	753.1	715.7	643.5	581.3	531.0	490.0	458.3	439.7	440.9	417.7	418.1
22.5°	769.7	728.3	642.2	565.1	505.0	451.0	413.7	390.9	392.2	375.1	371.1
25°	796.5	745.8	644.3	550.5	475.4	406.4	362.9	341.8	345.5	334.5	328.4
27.5°	829.4	766.5	645.9	532.6	436.4	356.8	312.2	304.1	302.4	290.7	283.8
30°	861.9	786.0	645.1	507.9	391.4	297.2	274.8	267.5	257.0	245.6	241.1
32.5°	899.2	809.5	641.0	481.9	342.6	265.1	242.8	232.2	217.6	205.4	207.9
35°	958.5	844.0	631.7	450.6	283.0	238.3	209.5	194.1	182.7	170.9	174.2
37.5°	1066.9	904.5	620.3	413.7	248.0	208.3	169.7	158.3	153.5	148.6	154.7
40°	1232.9	1028.7	613.0	366.6	220.4	170.9	134.4	138.0	144.1	140.1	146.1
42.5°	1383.5	1138.7	607.7	304.1	185.5	133.2	126.7	135.2	142.1	141.3	138.8
45°	1523.2	1237.8	606.9	231.0	146.1	127.5	127.1	133.2	142.9	142.1	140.5
47.5°	1658.0	1335.6	600.8	182.3	141.7	129.9	129.5	132.8	144.5	143.3	142.1
50°	1789.1	1421.7	571.2	163.2	145.7	136.0	131.9	131.1	140.9	141.3	138.4
52.5°	1907.2	1491.5	502.6	157.9	149.8	141.3	134.8	131.1	133.2	132.8	130.3
55°	2025.4	1555.3	418.1	155.5	151.4	144.9	144.1	133.6	129.1	121.8	124.6
57.5°	2131.7	1618.2	356.4	151.0	148.6	144.9	150.2	134.0	128.7	114.9	112.9
60°	2256.8	1684.0	290.3	145.7	143.7	142.1	141.7	134.0	125.9	110.0	104.7
62.5°	2376.5	1716.8	230.6	137.2	138.8	137.6	133.2	126.7	119.8	108.4	106.8
65°	2433.4	1665.7	166.0	126.3	132.3	134.4	127.1	114.1	103.9	94.2	91.7
67.5°	2372.9	1591.4	131.9	112.0	121.0	128.7	121.0	105.1	93.0	85.7	86.1
70°	2158.9	1487.1	107.6	93.8	104.3	119.8	116.9	100.3	84.8	78.4	79.2
72.5°	1938.5	1293.0	86.9	73.5	77.9	107.6	106.0	95.4	80.0	70.6	70.6
75°	1580.4	923.6	63.3	53.2	53.6	88.1	95.4	79.6	65.4	52.8	51.2
77.5°	1099.4	598.8	32.5	30.9	35.3	49.1	73.5	68.6	62.9	61.3	58.5
80°	640.2	305.7	20.7	14.2	18.3	32.9	57.6	60.1	59.3	40.2	37.3
82.5°	302.4	88.1	12.2	8.9	10.6	15.4	34.1	52.0	49.1	28.8	27.6
85°	121.8	10.6	6.5	5.3	6.1	8.9	16.2	41.8	34.1	26.8	26.8
87.5°	2.4	2.4	2.4	2.4	2.8	4.1	8.1	22.7	18.3	15.4	15.4
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)