

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: P234029

Luminaire Tested: **VERD-C013-D-U-T4-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)  
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-T4-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 560mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2627 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-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

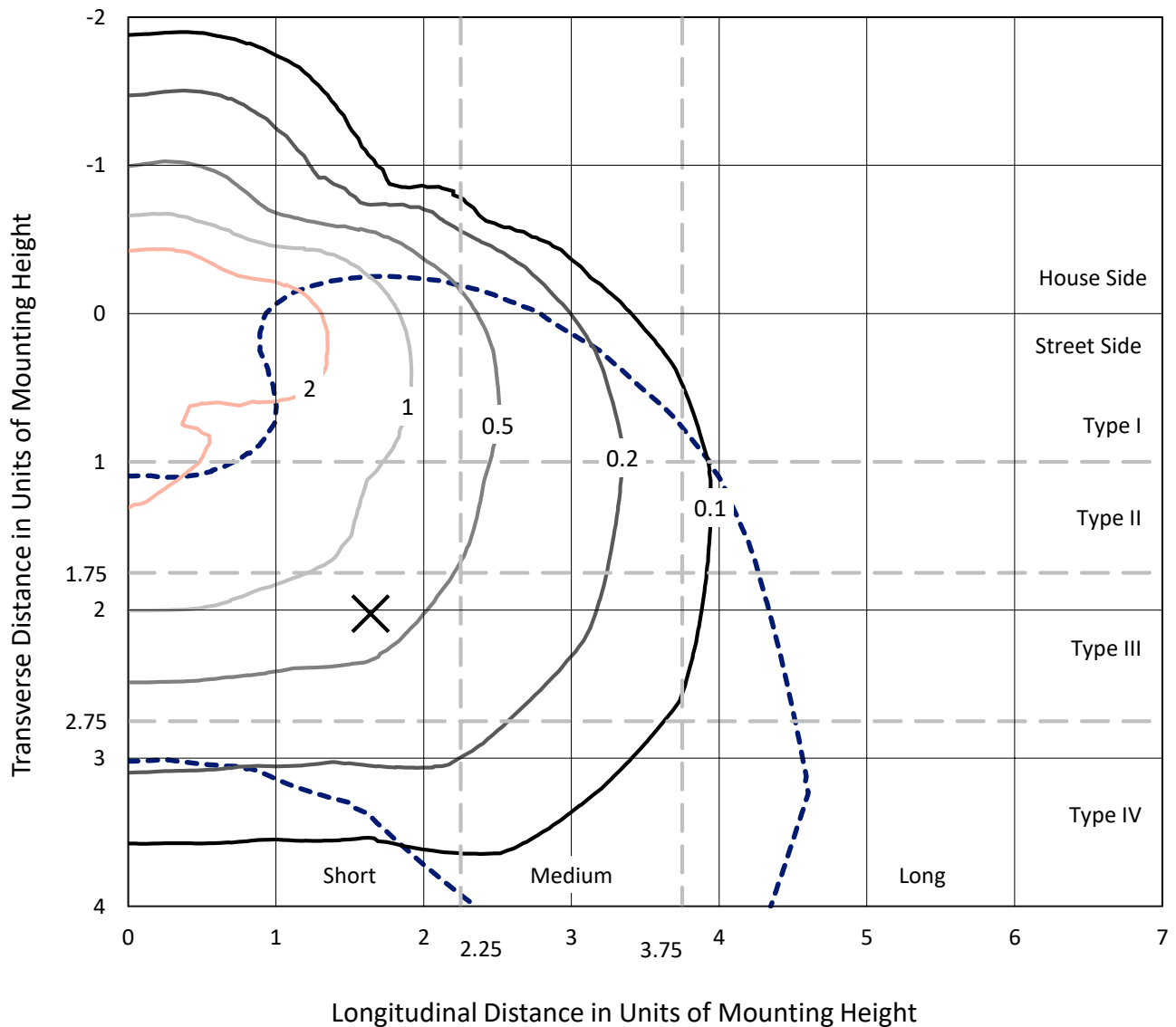


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

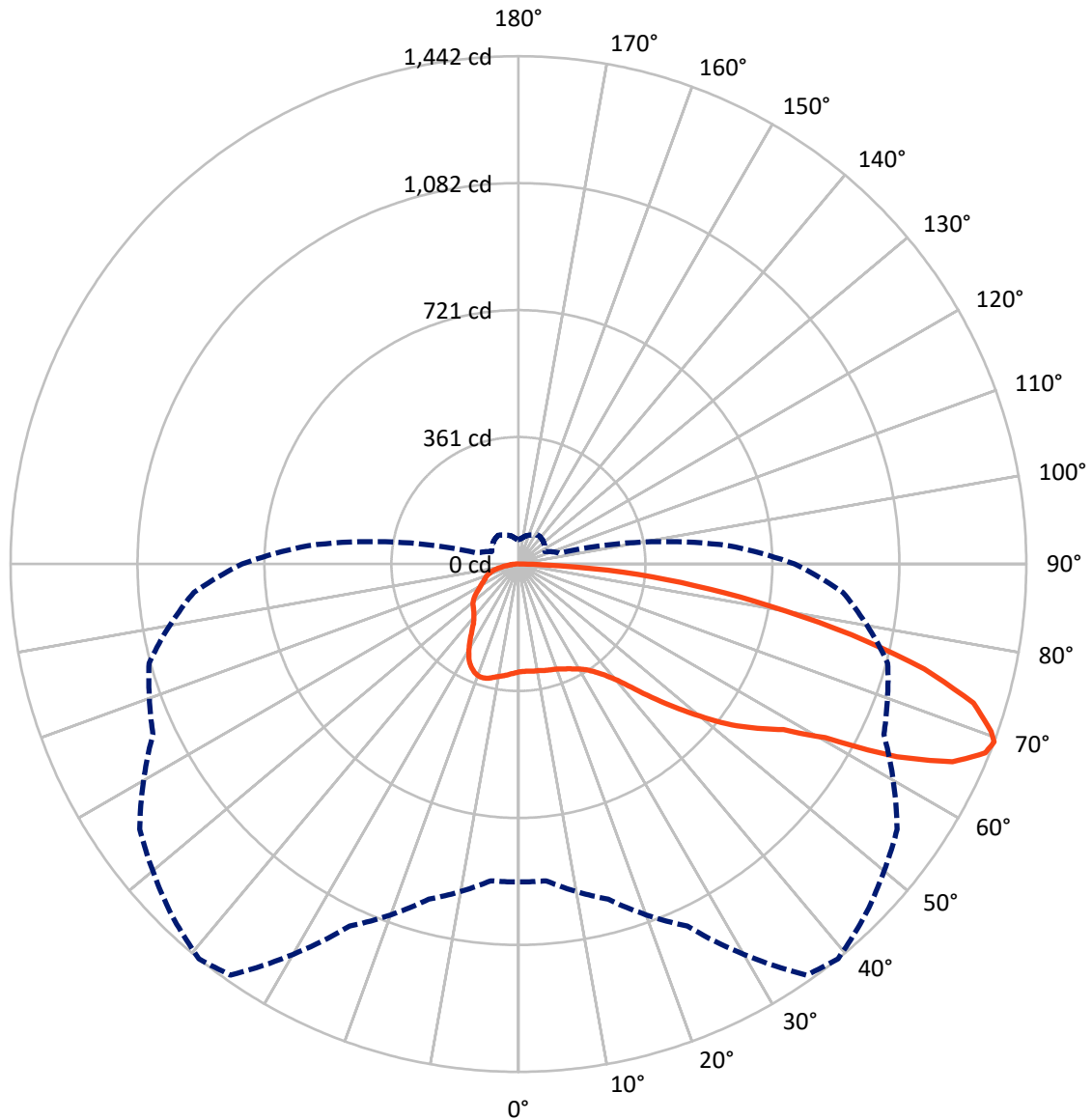


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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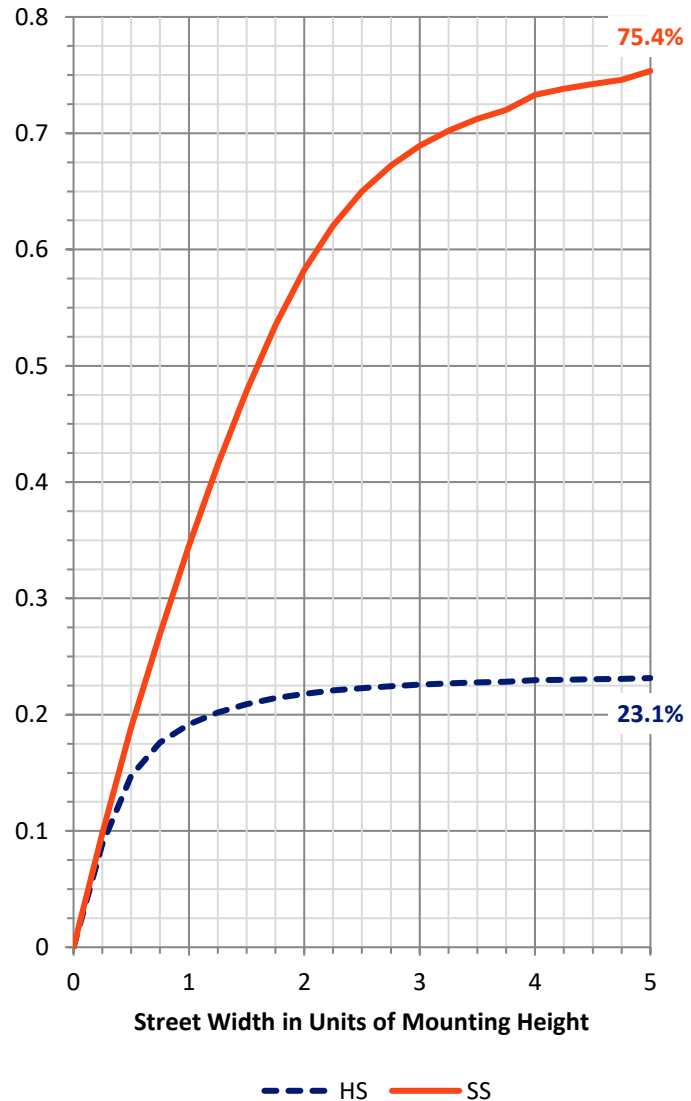
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	615.8	0.0	615.8
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	2011.2	0.0	2011.2
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2627.0	0.0	2627.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	1.1
10°-20°	91.9	3.5
20°-30°	154.7	5.9
30°-40°	224.2	8.5
40°-50°	362.3	13.8
50°-60°	530.4	20.2
60°-70°	663.9	25.3
70°-80°	474.6	18.1
80°-90°	95.2	3.6
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°	2627.0	100.0
0°-180°	2627.0	100.0



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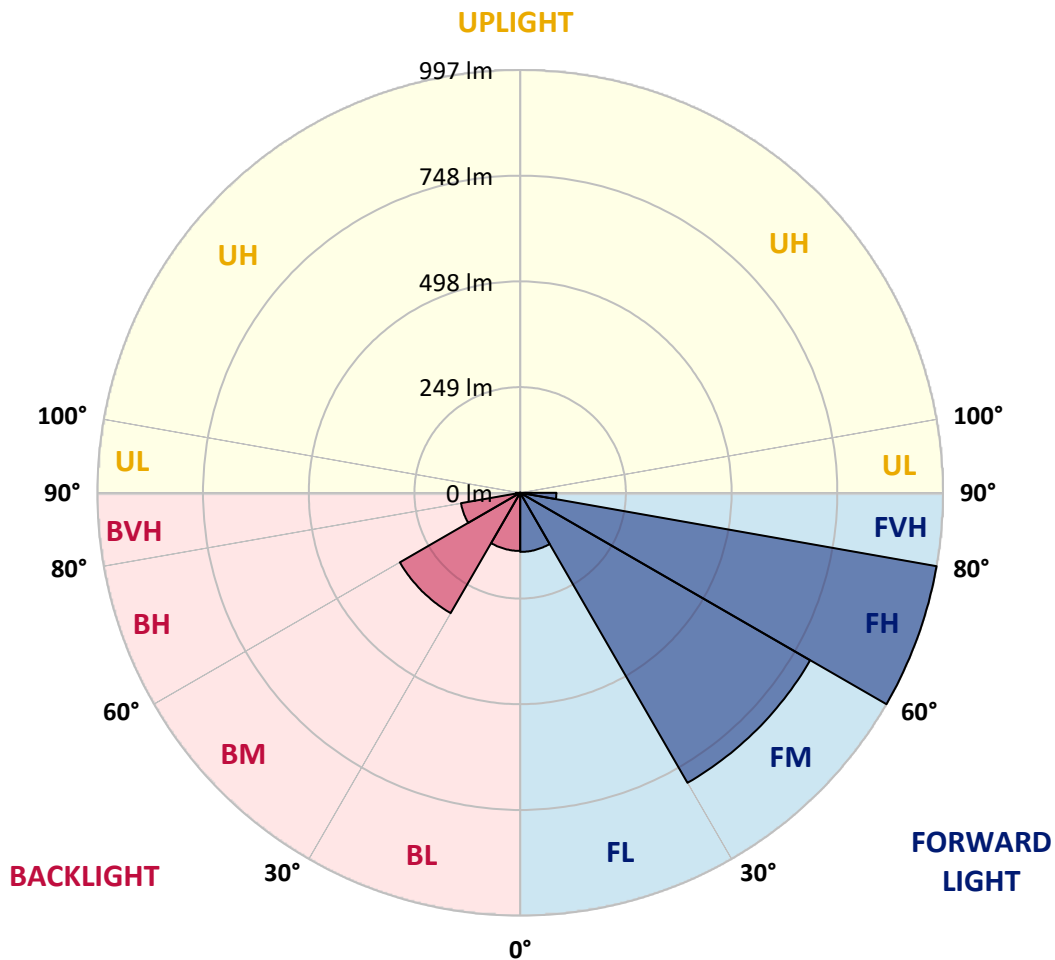
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.4	5.3			
FM	(30°-60°)	789.4	30.1			
FH	(60°-80°)	996.9	37.9			G1/1800
FVH	(80°-90°)	85.4	3.3			G1/100
BL	(0°-30°)	137.0	5.2	B1/500		
BM	(30°-60°)	327.5	12.5	B1/1000		
BH	(60°-80°)	141.6	5.4	B1/500		G1/500
BVH	(80°-90°)	9.7	0.4			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0
2.5°	311.3	310.8	309.9	306.0	305.5	305.3	305.8	304.3	304.1	304.5	304.1
5°	311.6	311.1	309.9	306.5	306.0	305.5	305.8	304.5	304.8	306.0	306.0
7.5°	312.0	311.6	310.4	306.7	307.7	307.2	308.2	306.5	306.5	307.4	307.7
10°	310.8	310.6	309.9	307.2	308.7	307.7	308.7	308.9	309.9	310.6	310.4
12.5°	307.7	307.7	307.7	306.5	310.6	310.4	312.0	313.7	316.2	317.4	318.1
15°	305.8	305.5	307.2	307.0	312.0	312.8	315.7	320.0	323.7	326.8	327.8
17.5°	307.7	307.7	309.9	309.4	314.5	315.0	318.1	324.4	330.4	336.5	339.2
20°	309.9	310.1	312.8	313.5	318.3	318.1	321.2	329.0	337.2	346.2	350.8
22.5°	316.6	316.4	318.6	317.1	322.7	323.7	326.3	333.1	344.7	356.1	363.6
25°	321.7	322.5	324.6	323.7	328.3	329.5	333.8	340.4	354.2	367.7	381.0
27.5°	326.6	328.0	329.7	329.5	335.8	337.2	340.6	350.8	366.8	383.0	401.6
30°	333.8	333.4	334.6	336.7	345.0	345.9	350.1	362.4	381.8	402.8	427.8
32.5°	343.5	343.0	344.2	346.2	356.1	358.5	364.1	377.4	401.9	427.3	457.8
35°	358.8	360.0	360.9	363.4	373.1	376.4	383.9	400.9	429.2	469.9	513.5
37.5°	411.8	409.1	403.8	394.1	396.8	400.6	411.3	435.5	476.7	545.7	585.6
40°	494.6	491.4	474.7	446.4	433.6	434.5	445.0	477.9	534.0	634.7	671.5
42.5°	572.5	568.7	548.8	513.5	488.0	485.1	486.1	524.1	597.0	723.8	743.4
45°	646.1	648.1	617.8	590.7	561.6	548.3	544.2	572.5	666.9	801.1	807.1
47.5°	716.6	718.0	683.9	657.7	629.7	614.2	606.2	628.2	731.3	863.5	857.9
50°	788.5	792.3	745.6	723.3	697.4	686.3	678.6	693.1	802.5	923.3	906.1
52.5°	889.9	873.7	812.4	781.0	762.6	759.2	751.2	763.0	878.0	976.1	940.3
55°	1002.7	968.1	903.7	848.7	823.3	823.3	816.3	830.1	956.0	1015.5	968.1
57.5°	1039.3	1042.7	1020.4	960.6	892.3	887.0	880.2	899.1	1022.8	1050.9	978.5
60°	1103.2	1112.6	1129.8	1079.9	1046.3	1001.0	959.9	970.0	1080.4	1079.9	989.6
62.5°	1134.9	1143.8	1197.6	1170.7	1202.4	1205.6	1128.6	1050.2	1123.0	1094.5	995.0
65°	1104.9	1111.2	1182.8	1218.2	1310.2	1354.0	1316.0	1157.9	1145.5	1088.4	975.1
67.5°	1006.3	1018.2	1077.5	1185.2	1406.3	1430.7	1395.1	1305.8	1155.2	1090.3	959.1
69°	902.7	903.0	985.3	1134.6	1425.1	1442.1	1398.5	1312.8	1145.1	1085.7	925.0
70°	844.4	850.4	911.4	1090.8	1418.1	1423.7	1390.3	1312.6	1138.0	1084.3	892.6
72.5°	659.0	655.8	716.6	912.2	1338.7	1351.1	1314.3	1275.5	1132.2	1021.8	755.1
75°	460.7	470.4	529.9	691.2	1153.5	1190.6	1190.6	1225.4	1042.2	873.2	545.9
77.5°	342.8	344.2	391.9	528.0	928.2	966.6	1002.0	1031.3	814.6	598.2	244.0
80°	232.2	234.3	277.9	389.5	687.8	723.1	779.0	709.5	484.7	207.0	27.8
82.5°	146.2	149.1	183.7	273.6	490.2	506.2	523.4	400.6	161.5	24.0	17.7
85°	86.9	87.4	110.9	174.8	299.0	299.9	281.5	184.5	43.3	14.3	11.1
87.5°	36.3	38.2	48.4	77.5	87.6	69.2	43.1	14.8	6.5	5.8	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°	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0
2.5°	302.6	305.3	304.8	305.5	306.5	308.4	310.6	309.6	310.8	313.5	313.5
5°	305.3	307.4	308.2	309.6	310.8	312.8	314.2	313.7	316.4	320.3	320.3
7.5°	307.4	309.1	311.6	313.3	314.5	318.3	319.8	318.8	320.8	325.4	325.6
10°	310.6	312.3	315.9	317.6	320.0	322.0	323.9	323.7	325.6	329.7	330.4
12.5°	318.3	319.6	324.6	327.1	327.1	329.5	328.0	325.6	326.6	329.0	329.5
15°	328.5	330.2	336.7	337.9	336.7	337.2	333.8	326.1	322.2	322.9	323.2
17.5°	340.1	343.0	350.5	348.8	347.4	343.8	335.0	323.4	311.8	307.4	308.2
20°	352.5	356.1	364.8	361.2	355.9	346.4	332.4	312.5	294.6	284.2	283.7
22.5°	366.8	371.4	379.6	373.3	361.4	345.0	323.4	299.2	276.5	260.2	259.3
25°	386.4	391.5	394.4	381.8	362.4	339.6	310.6	281.1	252.5	233.1	231.7
27.5°	408.6	411.3	405.5	386.6	357.8	328.3	294.6	258.1	226.6	210.6	208.4
30°	433.3	431.2	413.0	384.2	345.9	310.4	269.7	228.8	203.6	190.8	188.8
32.5°	461.9	455.1	418.8	377.4	330.2	286.9	242.6	210.1	190.0	177.2	176.2
35°	508.9	489.5	428.2	367.0	309.4	259.3	217.6	194.2	178.4	162.4	160.0
37.5°	576.9	540.3	442.0	357.3	286.9	232.6	198.8	181.3	167.5	149.6	146.2
40°	647.6	600.1	464.8	346.7	265.8	213.0	188.3	176.0	162.4	145.5	140.9
42.5°	712.2	657.0	491.4	333.4	243.8	197.3	183.3	174.5	161.0	145.0	141.4
45°	770.8	710.5	518.8	318.1	219.6	184.7	179.1	171.9	158.1	142.8	139.9
47.5°	820.2	756.0	546.4	300.4	196.3	177.0	174.8	167.0	154.2	139.4	137.0
50°	861.1	788.7	562.1	281.8	177.2	171.2	168.5	158.8	145.7	131.9	130.5
52.5°	891.4	809.0	576.4	271.9	162.2	161.7	160.0	150.6	138.0	123.7	120.8
55°	912.4	825.7	570.1	264.1	146.2	149.9	148.9	143.1	132.4	115.7	113.3
57.5°	913.6	827.2	556.6	218.1	130.5	135.6	137.3	138.2	126.4	111.6	108.7
60°	912.4	816.6	531.4	160.0	115.2	121.3	127.6	127.6	119.3	104.8	102.6
62.5°	906.8	795.5	472.8	114.0	103.1	111.1	119.3	115.7	108.7	97.1	94.9
65°	881.4	760.4	369.9	93.0	98.0	105.3	109.2	104.1	95.1	83.0	82.1
67.5°	835.2	680.0	214.0	85.2	93.7	100.2	103.4	95.6	87.2	75.5	75.0
69°	784.4	598.7	120.6	83.3	91.0	96.8	99.5	91.0	82.8	71.7	69.5
70°	738.8	526.0	78.4	81.6	88.4	94.7	96.6	87.9	80.1	68.8	67.3
72.5°	559.7	316.9	52.8	74.6	81.1	85.9	88.8	80.6	71.9	60.5	57.6
75°	305.8	86.2	46.5	63.9	72.1	78.7	79.4	69.0	56.4	44.8	43.6
77.5°	59.6	29.5	39.9	52.8	57.4	65.1	64.6	57.6	48.9	38.0	36.6
80°	22.5	21.3	33.4	37.8	40.4	48.7	51.6	46.5	40.7	25.9	22.3
82.5°	15.3	15.7	24.9	22.3	24.7	28.8	36.3	35.3	32.2	17.7	15.7
85°	10.7	12.3	13.8	9.4	12.1	18.2	24.0	23.2	19.9	12.3	11.1
87.5°	3.1	3.4	3.9	4.8	7.5	13.6	19.6	16.2	10.9	9.2	8.0
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)