

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: P234021

Luminaire Tested: **VERD-C013-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
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-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2667 lumens
Efficiency: N/A
Efficacy: 111.1 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): 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

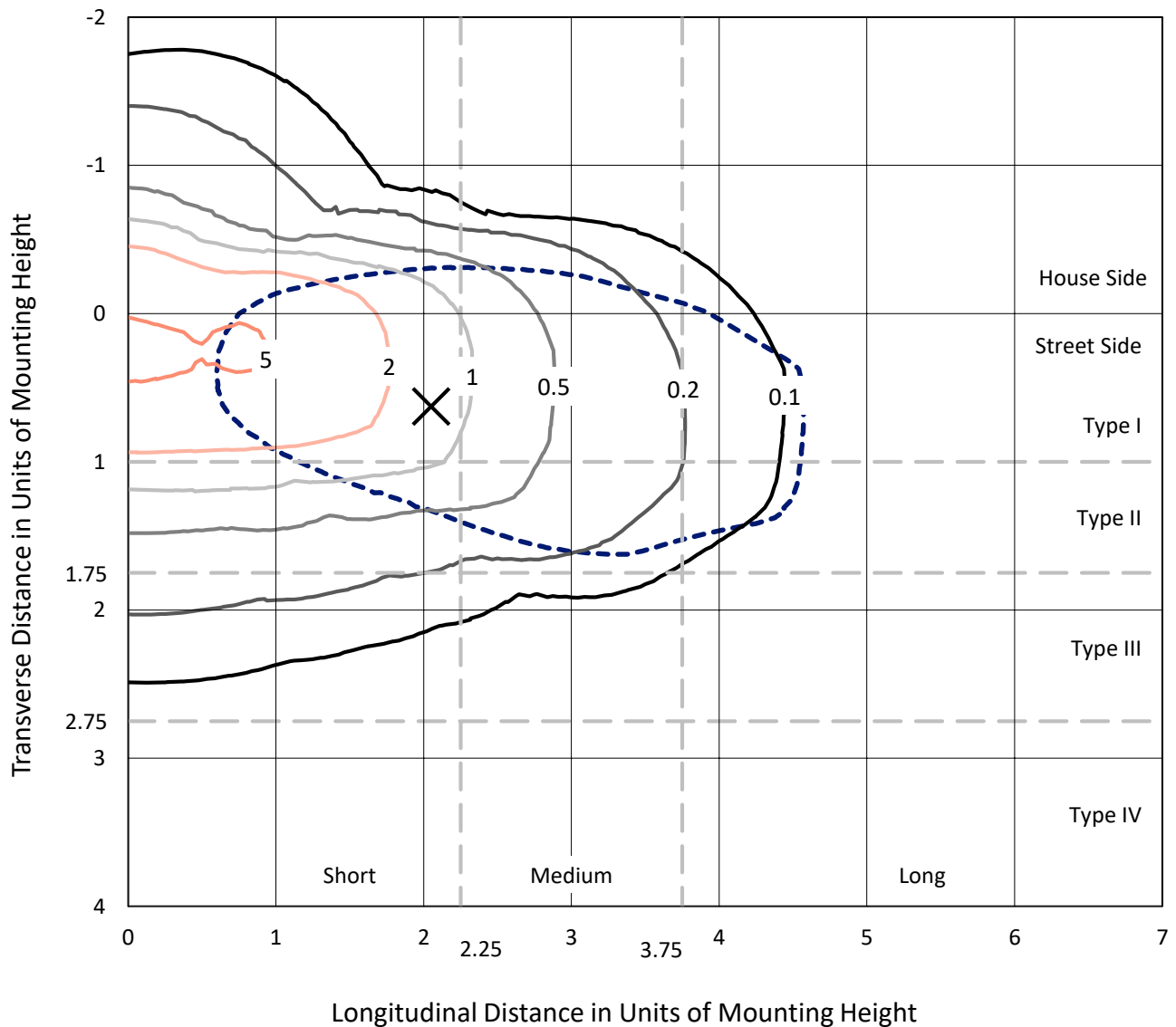


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

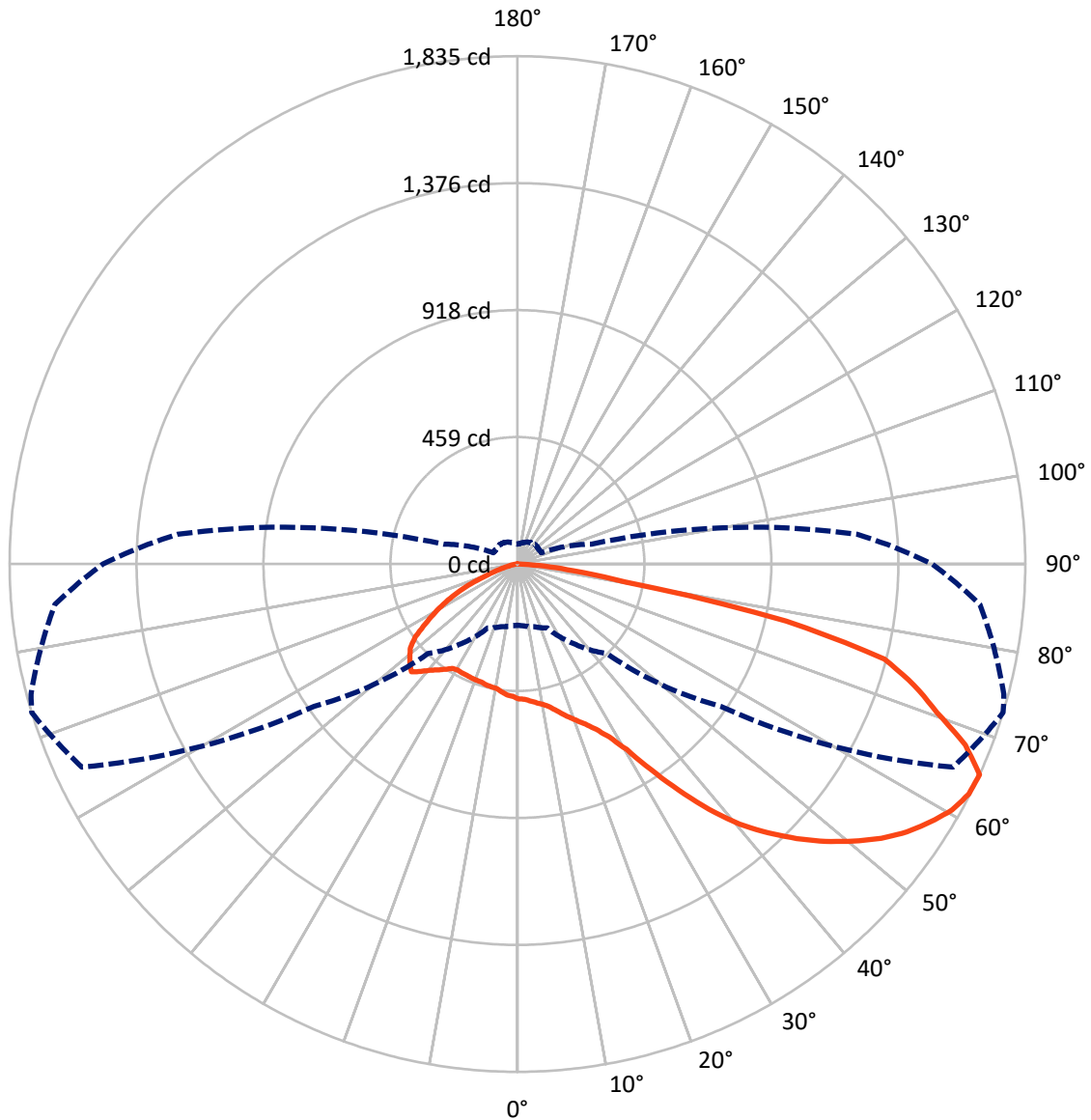


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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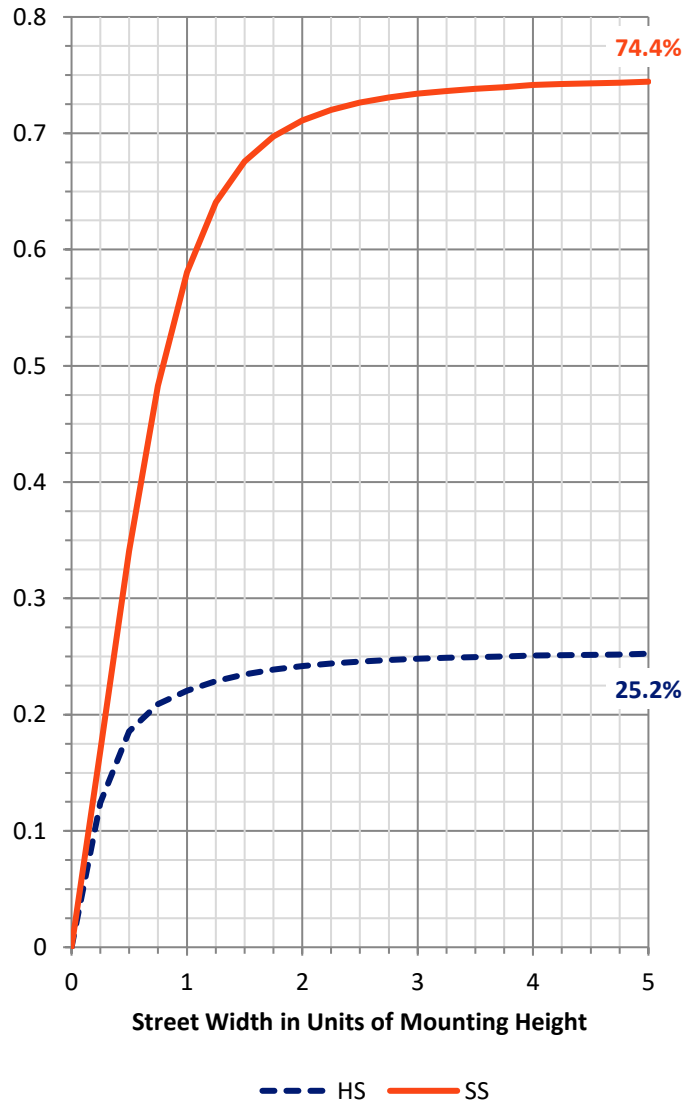
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	683.7	0.0	683.7
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	1983.3	0.0	1983.3
	% Fixture	74.4	0.0	74.4
Total	Lumens	2667.0	0.0	2667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	1.7
10°-20°	140.7	5.3
20°-30°	236.0	8.8
30°-40°	346.1	13.0
40°-50°	467.8	17.5
50°-60°	541.9	20.3
60°-70°	529.3	19.8
70°-80°	317.9	11.9
80°-90°	40.7	1.5
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°	2667.0	100.0
0°-180°	2667.0	100.0

Coefficient of Utilization



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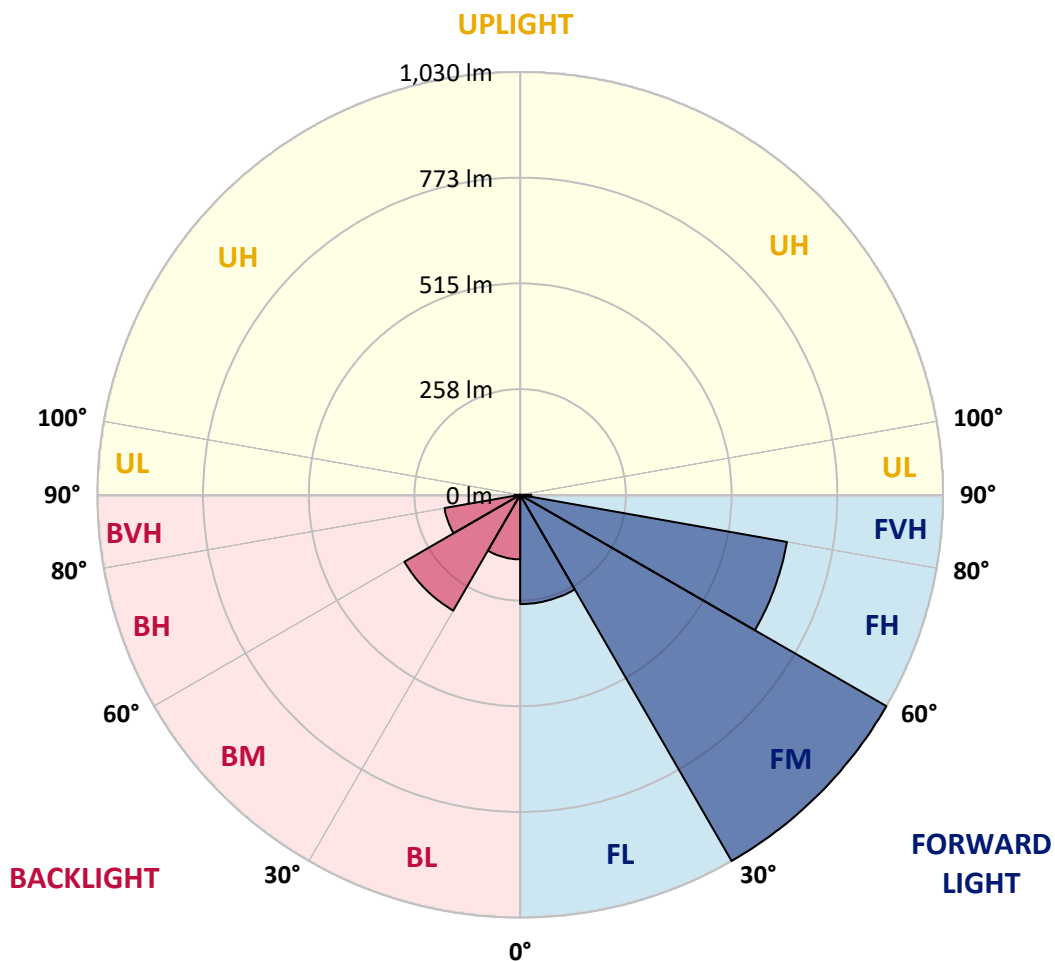
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.1	10.0			
FM (30°-60°)	1030.1	38.6			
FH (60°-80°)	660.0	24.7			G1/1800
FVH (80°-90°)	27.1	1.0			G1/100
BL (0°-30°)	157.1	5.9	B1/500		
BM (30°-60°)	325.7	12.2	B1/1000		
BH (60°-80°)	187.2	7.0	B1/500		G1/500
BVH (80°-90°)	13.6	0.5			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°	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7
2.5°	517.7	519.6	517.4	511.1	508.0	505.8	499.3	493.5	488.9	488.4	484.0
5°	537.5	540.4	536.8	528.8	525.7	521.1	513.8	505.8	497.6	495.9	487.2
7.5°	562.7	563.2	561.3	553.3	546.7	537.1	524.5	516.0	506.5	503.9	490.1
10°	584.0	583.8	581.4	573.6	567.1	558.6	540.9	527.1	516.0	512.6	493.5
12.5°	604.4	603.9	601.5	593.5	585.2	578.2	564.9	546.3	531.2	526.9	503.2
15°	629.6	628.3	624.5	613.8	607.3	599.0	589.4	570.7	553.5	547.5	517.2
17.5°	648.9	648.7	645.8	636.8	629.1	620.1	611.1	596.6	578.0	571.2	531.0
20°	660.1	659.1	658.4	651.3	649.4	644.6	631.7	620.6	601.9	594.9	546.5
22.5°	671.9	672.2	672.4	668.8	674.3	670.2	660.8	647.2	628.3	620.3	568.3
25°	674.6	675.1	679.9	687.9	694.7	702.2	695.4	682.1	661.8	653.3	598.1
27.5°	667.1	669.0	683.5	697.1	721.1	730.8	729.6	728.8	708.0	699.5	639.0
30°	673.9	673.9	683.8	707.0	737.3	762.7	768.3	783.8	777.5	771.4	707.8
32.5°	653.5	657.2	674.8	707.3	755.2	792.3	817.4	860.5	885.5	880.4	805.1
35°	615.3	620.1	646.0	695.7	764.2	827.1	872.2	955.2	1003.4	1009.5	922.3
37.5°	585.7	589.8	622.3	677.5	767.6	859.8	935.4	1061.8	1124.0	1120.8	1021.6
40°	549.6	556.9	589.6	655.9	759.6	887.7	1003.9	1159.6	1236.1	1221.6	1116.0
42.5°	517.2	523.5	550.9	621.6	748.4	903.4	1065.9	1260.3	1327.4	1315.8	1205.3
45°	482.8	488.4	513.8	580.4	722.5	911.2	1124.0	1356.7	1415.0	1402.0	1288.2
47.5°	443.3	450.9	481.1	541.7	684.5	906.3	1166.4	1440.5	1498.3	1488.6	1356.7
50°	343.8	351.6	430.8	505.3	631.7	886.2	1204.4	1524.2	1573.6	1564.4	1417.2
52.5°	312.1	315.5	340.2	463.7	576.8	846.5	1228.1	1593.2	1647.0	1637.8	1474.4
55°	292.7	295.2	309.0	378.7	530.0	782.6	1231.0	1664.9	1708.7	1696.6	1535.1
57.5°	272.9	275.5	290.8	326.6	483.1	682.6	1200.3	1725.7	1758.9	1745.8	1593.2
60°	256.2	257.6	272.6	297.3	430.0	583.3	1121.1	1767.1	1805.1	1788.2	1650.1
62.5°	240.9	242.9	253.8	276.3	385.5	509.0	1010.7	1767.3	1830.5	1820.1	1679.0
65°	221.1	224.0	234.6	255.0	349.4	458.1	896.4	1736.6	1835.1	1819.6	1677.5
67.5°	198.1	201.7	211.4	227.6	301.5	403.9	737.1	1696.2	1745.3	1742.6	1608.3
70°	175.1	175.1	186.0	199.0	250.1	345.8	582.3	1552.1	1608.3	1612.4	1484.0
72.5°	147.7	148.2	156.7	168.0	201.5	283.8	424.2	1326.9	1499.3	1449.4	1338.5
75°	124.0	123.5	132.2	141.6	163.9	223.5	276.8	974.8	1370.2	1381.4	1178.0
77.5°	65.9	63.4	74.6	82.1	96.1	124.2	153.5	488.9	992.3	1014.1	943.1
80°	18.6	18.9	49.4	55.2	63.2	61.5	71.2	186.4	392.5	442.4	549.9
82.5°	11.1	12.8	28.1	32.9	24.7	16.0	27.1	103.6	203.2	227.6	272.9
85°	5.8	6.3	9.9	12.3	9.4	8.0	8.2	43.6	98.8	100.5	109.0
87.5°	2.7	2.7	3.6	3.9	2.4	1.5	1.0	0.7	0.7	0.5	0.5
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°	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7	487.7
2.5°	480.6	483.1	478.9	475.8	473.4	471.9	470.2	466.1	467.3	469.0	468.8
5°	483.1	484.3	477.0	467.1	457.9	451.3	447.0	440.4	440.4	443.1	443.1
7.5°	485.2	483.5	468.8	452.1	441.7	436.3	429.3	422.3	421.1	423.0	423.3
10°	486.4	479.2	458.6	443.1	429.5	418.7	409.7	401.7	401.5	404.1	404.6
12.5°	491.8	477.7	457.9	436.6	416.2	404.6	394.0	385.0	381.8	382.1	382.6
15°	500.0	483.5	456.9	427.6	405.6	390.1	374.6	363.2	360.3	364.2	365.6
17.5°	509.9	493.0	452.3	419.4	392.5	373.9	358.4	348.2	339.0	334.9	334.1
20°	523.0	501.0	454.7	407.3	379.9	355.0	335.6	323.2	315.5	315.0	314.5
22.5°	540.2	509.9	455.2	399.3	360.1	334.1	310.2	303.2	289.4	284.3	286.4
25°	563.0	523.5	454.0	390.8	344.8	309.9	281.1	268.3	263.2	257.4	257.9
27.5°	592.3	545.0	457.2	379.7	319.9	280.4	248.2	234.4	226.6	221.8	222.5
30°	651.8	577.7	456.9	369.0	296.9	249.9	213.6	204.4	196.6	192.3	194.4
32.5°	736.6	648.7	467.1	354.7	270.7	209.0	184.5	174.1	167.6	162.7	163.9
35°	841.4	725.9	493.2	335.4	240.9	177.7	161.0	148.2	140.2	138.3	137.5
37.5°	938.8	794.2	517.9	322.5	206.8	160.5	139.5	126.6	119.6	122.0	122.0
40°	1025.7	884.8	545.8	301.9	175.8	140.9	115.5	109.7	106.1	110.2	111.6
42.5°	1091.3	971.7	583.5	274.8	150.6	117.7	98.8	102.9	104.4	107.3	106.5
45°	1172.7	1021.3	620.8	249.6	128.6	98.1	95.4	103.9	107.3	109.9	108.7
47.5°	1247.5	1059.8	613.3	203.2	108.2	94.9	97.1	103.9	109.7	114.0	113.3
50°	1311.9	1108.0	599.0	157.9	103.9	97.8	98.8	101.2	109.9	112.8	112.8
52.5°	1352.1	1155.7	581.4	127.6	107.0	101.5	99.8	99.5	105.3	107.5	105.6
55°	1400.5	1205.1	535.6	118.4	108.2	103.9	102.4	100.2	101.9	100.2	101.2
57.5°	1454.3	1253.8	465.4	115.7	107.5	103.1	110.9	99.3	98.3	92.3	90.8
60°	1501.5	1272.9	403.9	109.7	103.6	101.2	103.1	98.1	93.2	85.2	82.1
62.5°	1519.2	1271.2	341.4	103.4	97.8	98.3	98.1	94.4	90.1	82.1	80.1
65°	1497.8	1232.5	276.8	95.9	93.2	95.2	92.7	87.4	80.1	73.6	71.9
67.5°	1425.7	1133.7	205.6	86.0	85.7	89.3	87.7	80.4	72.4	67.3	67.3
70°	1287.7	1012.1	133.2	71.4	76.8	83.1	83.1	75.3	64.9	60.5	61.7
72.5°	1136.6	871.0	86.2	53.0	60.5	75.3	74.8	69.5	59.8	54.2	54.5
75°	984.5	691.1	55.7	36.6	39.2	64.2	66.3	56.7	46.5	39.7	38.5
77.5°	748.4	519.9	35.4	21.3	24.9	39.2	50.4	47.2	47.5	57.9	57.4
80°	460.3	313.3	25.7	10.4	12.3	25.7	40.7	45.0	63.2	41.6	38.3
82.5°	230.5	146.5	13.6	6.3	7.0	11.4	24.2	54.0	46.0	27.6	26.2
85°	86.2	39.5	4.1	3.1	3.9	5.8	9.9	49.4	29.3	22.0	21.5
87.5°	0.5	0.7	0.7	1.0	1.5	1.7	3.6	23.5	14.8	10.7	10.2
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)