

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: P233560

Luminaire Tested: **VERD-C018-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233560
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-C018-D-U-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5188 lumens
Efficiency: N/A
Efficacy: 103.8 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 - G2

Input Watts (W): 50
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

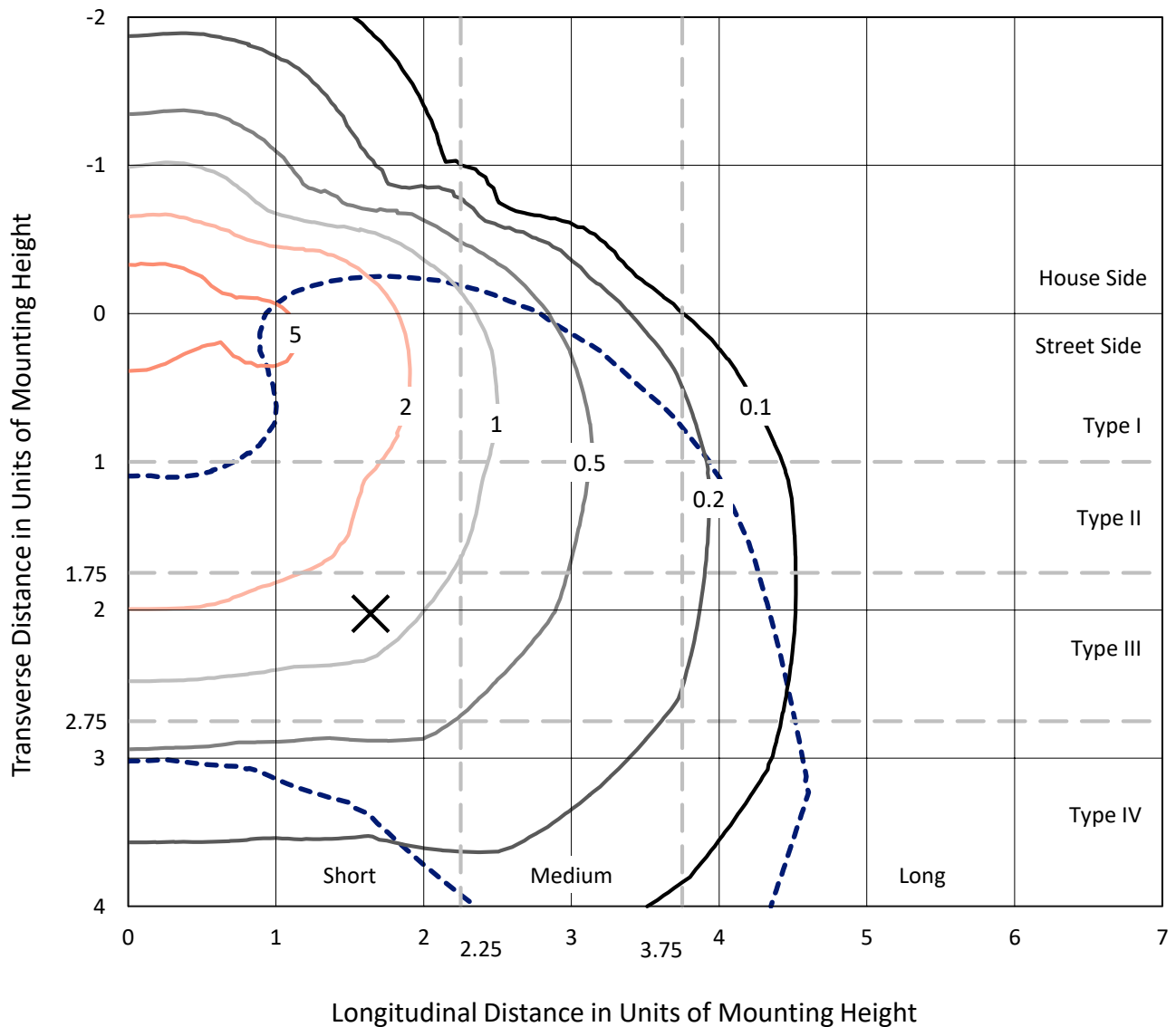


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

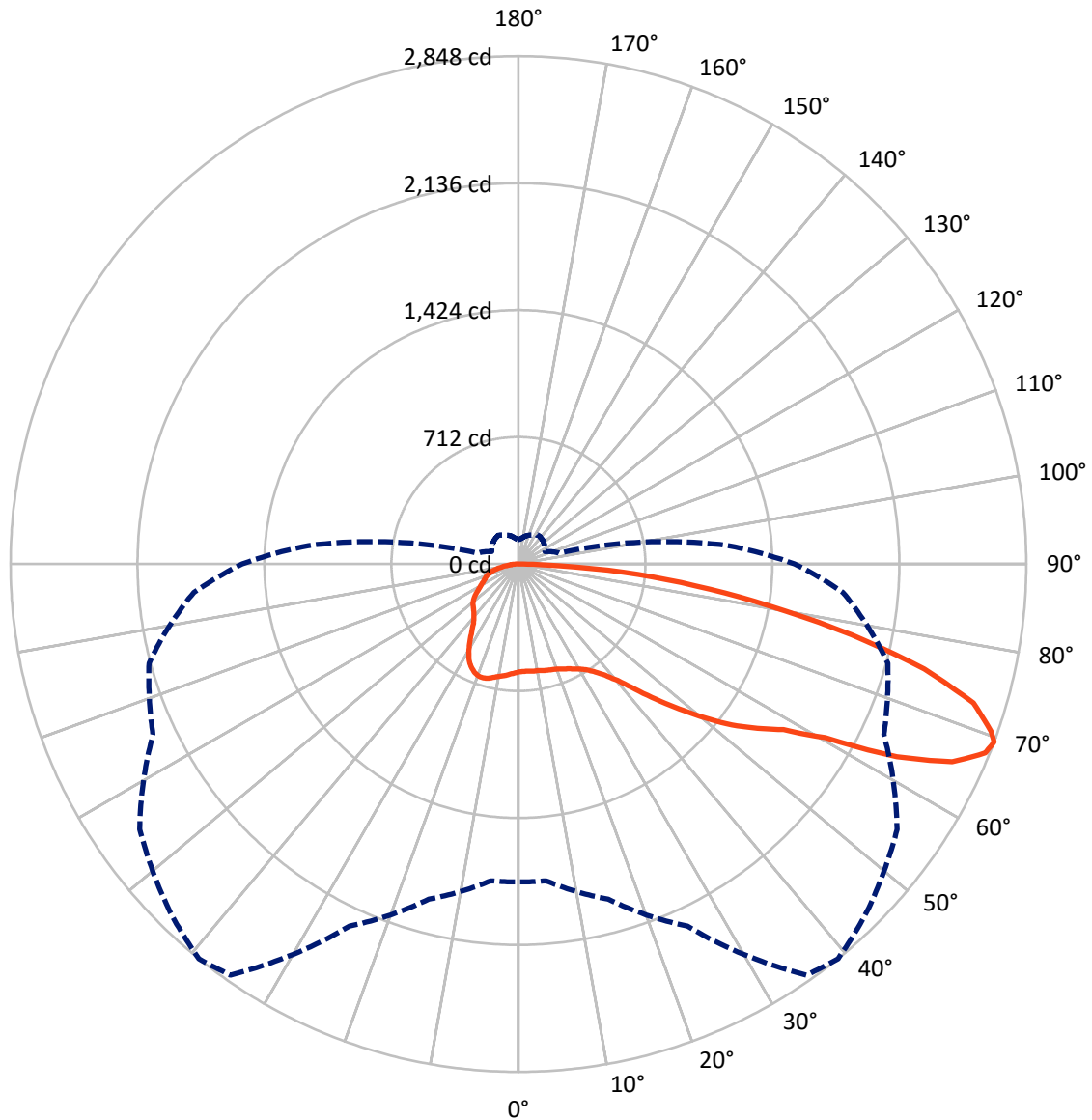


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	1216.2	0.0	1216.2
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	3971.8	0.0	3971.8
	% Fixture	76.6	0.0	76.6
Total	Lumens	5188.0	0.0	5188.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.1
10°-20°	181.5	3.5
20°-30°	305.6	5.9
30°-40°	442.7	8.5
40°-50°	715.5	13.8
50°-60°	1047.6	20.2
60°-70°	1311.2	25.3
70°-80°	937.3	18.1
80°-90°	187.9	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°	5188.0	100.0
0°-180°	5188.0	100.0



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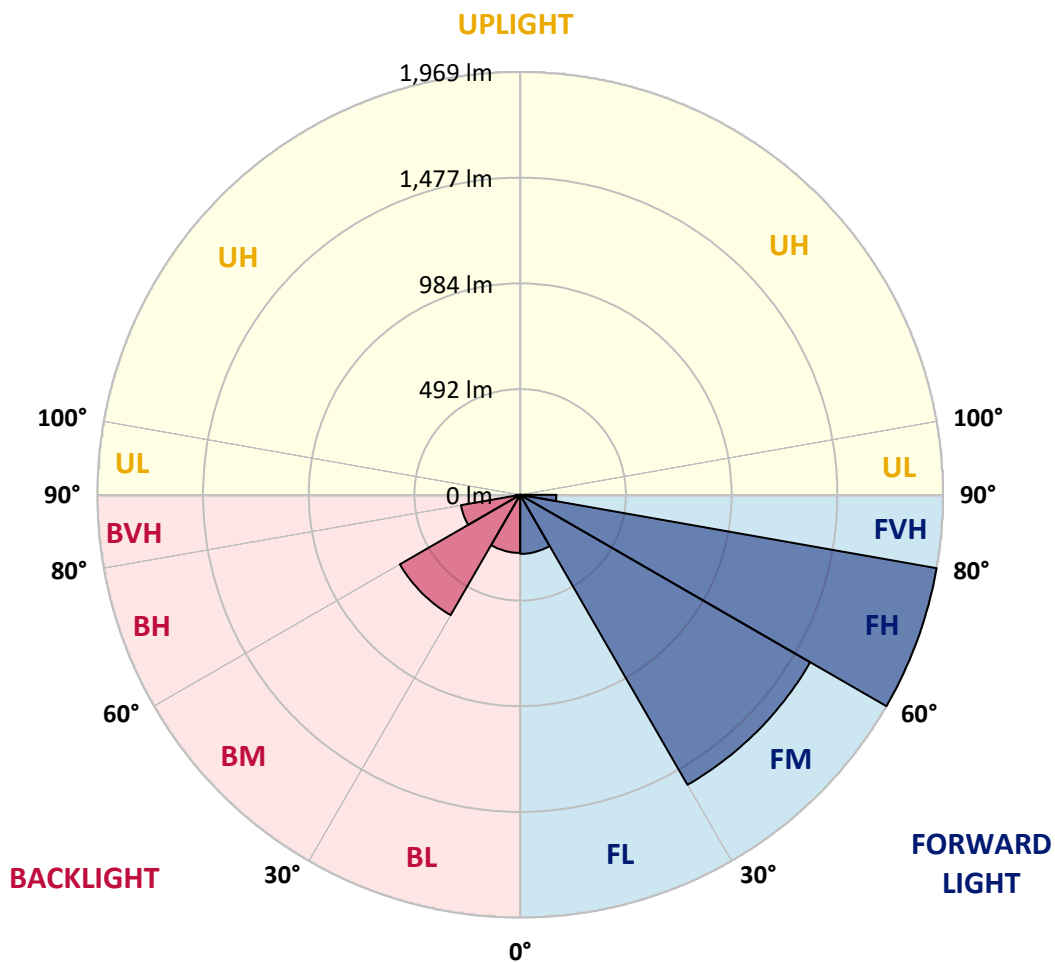
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.2	5.3			
FM	(30°-60°)	1559.1	30.1			
FH	(60°-80°)	1968.8	37.9			G2/5000
FVH	(80°-90°)	168.7	3.3			G2/225
BL	(0°-30°)	270.6	5.2	B1/500		
BM	(30°-60°)	646.7	12.5	B1/1000		
BH	(60°-80°)	279.7	5.4	B1/500		G1/500
BVH	(80°-90°)	19.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	614.8	613.9	612.0	604.3	603.3	602.9	603.8	601.0	600.5	601.4	600.5
5°	615.3	614.3	612.0	605.3	604.3	603.3	603.8	601.4	601.9	604.3	604.3
7.5°	616.3	615.3	612.9	605.7	607.6	606.7	608.6	605.3	605.3	607.2	607.6
10°	613.9	613.4	612.0	606.7	609.6	607.6	609.6	610.0	612.0	613.4	612.9
12.5°	607.6	607.6	607.6	605.3	613.4	612.9	616.3	619.6	624.4	626.8	628.2
15°	603.8	603.3	606.7	606.2	616.3	617.7	623.4	632.0	639.2	645.4	647.3
17.5°	607.6	607.6	612.0	611.0	621.0	622.0	628.2	640.6	652.6	664.5	669.8
20°	612.0	612.4	617.7	619.1	628.7	628.2	634.4	649.7	666.0	683.7	692.7
22.5°	625.3	624.9	629.2	626.3	637.3	639.2	644.5	657.8	680.8	703.3	718.1
25°	635.4	636.8	641.1	639.2	648.3	650.7	659.3	672.2	699.4	726.2	752.5
27.5°	644.9	647.8	651.2	650.7	663.1	666.0	672.7	692.7	724.3	756.3	793.1
30°	659.3	658.3	660.7	665.0	681.3	683.2	691.3	715.7	753.9	795.5	844.8
32.5°	678.4	677.4	679.8	683.7	703.3	708.0	719.0	745.3	793.6	843.8	904.1
35°	708.5	710.9	712.8	717.6	736.7	743.4	758.2	791.7	847.6	928.0	1014.0
37.5°	813.2	808.0	797.4	778.3	783.6	791.2	812.3	860.1	941.4	1077.6	1156.5
40°	976.7	970.5	937.5	881.6	856.3	858.2	878.7	943.7	1054.7	1253.5	1326.2
42.5°	1130.7	1123.0	1083.8	1014.0	963.8	958.1	960.0	1035.1	1179.0	1429.5	1468.2
45°	1276.0	1279.8	1220.1	1166.5	1109.2	1082.9	1074.7	1130.7	1317.1	1582.0	1593.9
47.5°	1415.1	1418.0	1350.6	1299.0	1243.5	1212.9	1197.1	1240.6	1444.3	1705.3	1694.3
50°	1557.1	1564.8	1472.5	1428.5	1377.4	1355.4	1340.1	1368.8	1584.9	1823.4	1789.5
52.5°	1757.4	1725.4	1604.5	1542.3	1506.0	1499.3	1483.5	1506.9	1734.0	1927.6	1856.9
55°	1980.2	1911.9	1784.7	1676.2	1626.0	1626.0	1612.1	1639.4	1888.0	2005.6	1911.9
57.5°	2052.4	2059.1	2015.1	1897.0	1762.2	1751.7	1738.3	1775.6	2019.9	2075.4	1932.4
60°	2178.6	2197.3	2231.2	2132.7	2066.3	1976.9	1895.6	1915.7	2133.7	2132.7	1954.4
62.5°	2241.3	2259.0	2365.1	2312.0	2374.7	2380.9	2228.8	2073.9	2217.8	2161.4	1964.9
65°	2182.0	2194.4	2335.9	2405.7	2587.4	2673.9	2598.9	2286.7	2262.3	2149.5	1925.7
67.5°	1987.4	2010.8	2128.0	2340.7	2777.2	2825.5	2755.2	2578.8	2281.4	2153.3	1894.2
69°	1782.8	1783.3	1945.8	2240.8	2814.5	2848.0	2761.9	2592.7	2261.3	2144.2	1826.8
70°	1667.6	1679.5	1800.0	2154.3	2800.6	2811.6	2745.7	2592.2	2247.5	2141.3	1762.7
72.5°	1301.4	1295.1	1415.1	1801.4	2643.8	2668.2	2595.5	2519.0	2236.0	2018.0	1491.2
75°	909.8	928.9	1046.5	1364.9	2278.1	2351.2	2351.2	2420.1	2058.2	1724.5	1078.1
77.5°	677.0	679.8	774.0	1042.7	1833.0	1909.0	1978.8	2036.6	1608.8	1181.4	481.9
80°	458.5	462.8	548.8	769.2	1358.2	1428.0	1538.5	1401.3	957.1	408.8	55.0
82.5°	288.8	294.5	362.9	540.2	968.1	999.7	1033.6	791.2	318.9	47.3	34.9
85°	171.6	172.6	219.0	345.2	590.4	592.3	556.0	364.3	85.6	28.2	22.0
87.5°	71.7	75.5	95.6	153.0	173.1	136.7	85.1	29.2	12.9	11.5	7.6
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°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	597.6	602.9	601.9	603.3	605.3	609.1	613.4	611.5	613.9	619.1	619.1
5°	602.9	607.2	608.6	611.5	613.9	617.7	620.6	619.6	624.9	632.5	632.5
7.5°	607.2	610.5	615.3	618.6	621.0	628.7	631.6	629.6	633.5	642.5	643.0
10°	613.4	616.7	623.9	627.2	632.0	635.9	639.7	639.2	643.0	651.2	652.6
12.5°	628.7	631.1	641.1	645.9	645.9	650.7	647.8	643.0	644.9	649.7	650.7
15°	648.8	652.1	665.0	667.4	665.0	666.0	659.3	644.0	636.3	637.8	638.2
17.5°	671.7	677.4	692.3	688.9	686.1	678.9	661.7	638.7	615.8	607.2	608.6
20°	696.1	703.3	720.5	713.3	702.8	684.1	656.4	617.2	581.8	561.3	560.3
22.5°	724.3	733.4	749.6	737.2	713.8	681.3	638.7	590.9	546.0	513.9	512.0
25°	763.0	773.1	778.8	753.9	715.7	670.8	613.4	555.1	498.6	460.4	457.5
27.5°	807.0	812.3	800.8	763.5	706.6	648.3	581.8	509.6	447.5	415.9	411.6
30°	855.8	851.5	815.6	758.7	683.2	612.9	532.6	451.8	402.1	376.7	372.9
32.5°	912.2	898.8	827.1	745.3	652.1	566.5	479.0	415.0	375.3	350.0	348.0
35°	1004.9	966.7	845.7	724.8	611.0	512.0	429.8	383.4	352.3	320.8	316.0
37.5°	1139.3	1067.1	873.0	705.7	566.5	459.4	392.5	358.1	330.8	295.5	288.8
40°	1278.9	1185.2	917.9	684.6	524.9	420.7	372.0	347.6	320.8	287.3	278.2
42.5°	1406.5	1297.5	970.5	658.3	481.4	389.6	361.9	344.7	317.9	286.4	279.2
45°	1522.2	1403.2	1024.5	628.2	433.6	364.8	353.8	339.4	312.2	282.1	276.3
47.5°	1619.8	1493.1	1079.0	593.3	387.7	349.5	345.2	329.9	304.5	275.4	270.6
50°	1700.6	1557.6	1110.1	556.5	350.0	338.0	332.7	313.6	287.8	260.6	257.7
52.5°	1760.3	1597.8	1138.3	536.9	320.3	319.4	316.0	297.4	272.5	244.3	238.6
55°	1801.9	1630.8	1125.9	521.6	288.8	295.9	294.0	282.5	261.5	228.5	223.7
57.5°	1804.3	1633.6	1099.1	430.8	257.7	267.7	271.1	273.0	249.6	220.4	214.7
60°	1801.9	1612.6	1049.4	316.0	227.6	239.5	252.0	252.0	235.7	207.0	202.7
62.5°	1790.9	1571.0	933.7	225.2	203.7	219.4	235.7	228.5	214.7	191.7	187.4
65°	1740.7	1501.7	730.5	183.6	193.6	208.0	215.6	205.6	187.9	164.0	162.1
67.5°	1649.4	1342.9	422.6	168.3	185.0	197.9	204.1	188.8	172.1	149.2	148.2
69°	1549.0	1182.3	238.1	164.5	179.8	191.2	196.5	179.8	163.5	141.5	137.2
70°	1459.1	1038.9	154.9	161.1	174.5	186.9	190.8	173.5	158.2	135.8	132.9
72.5°	1105.3	625.8	104.2	147.3	160.2	169.7	175.5	159.2	142.0	119.5	113.8
75°	603.8	170.2	91.8	126.2	142.5	155.4	156.8	136.3	111.4	88.4	86.1
77.5°	117.6	58.3	78.9	104.2	113.3	128.6	127.6	113.8	96.6	75.1	72.2
80°	44.5	42.1	66.0	74.6	79.8	96.1	101.8	91.8	80.3	51.2	44.0
82.5°	30.1	31.1	49.2	44.0	48.8	56.9	71.7	69.8	63.6	34.9	31.1
85°	21.0	24.4	27.3	18.6	23.9	35.9	47.3	45.9	39.2	24.4	22.0
87.5°	6.2	6.7	7.6	9.6	14.8	26.8	38.7	32.0	21.5	18.2	15.8
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)