

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: P233664

Luminaire Tested: **VERD-C018-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
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-T2-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4772 lumens
Efficiency: N/A
Efficacy: 95.4 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

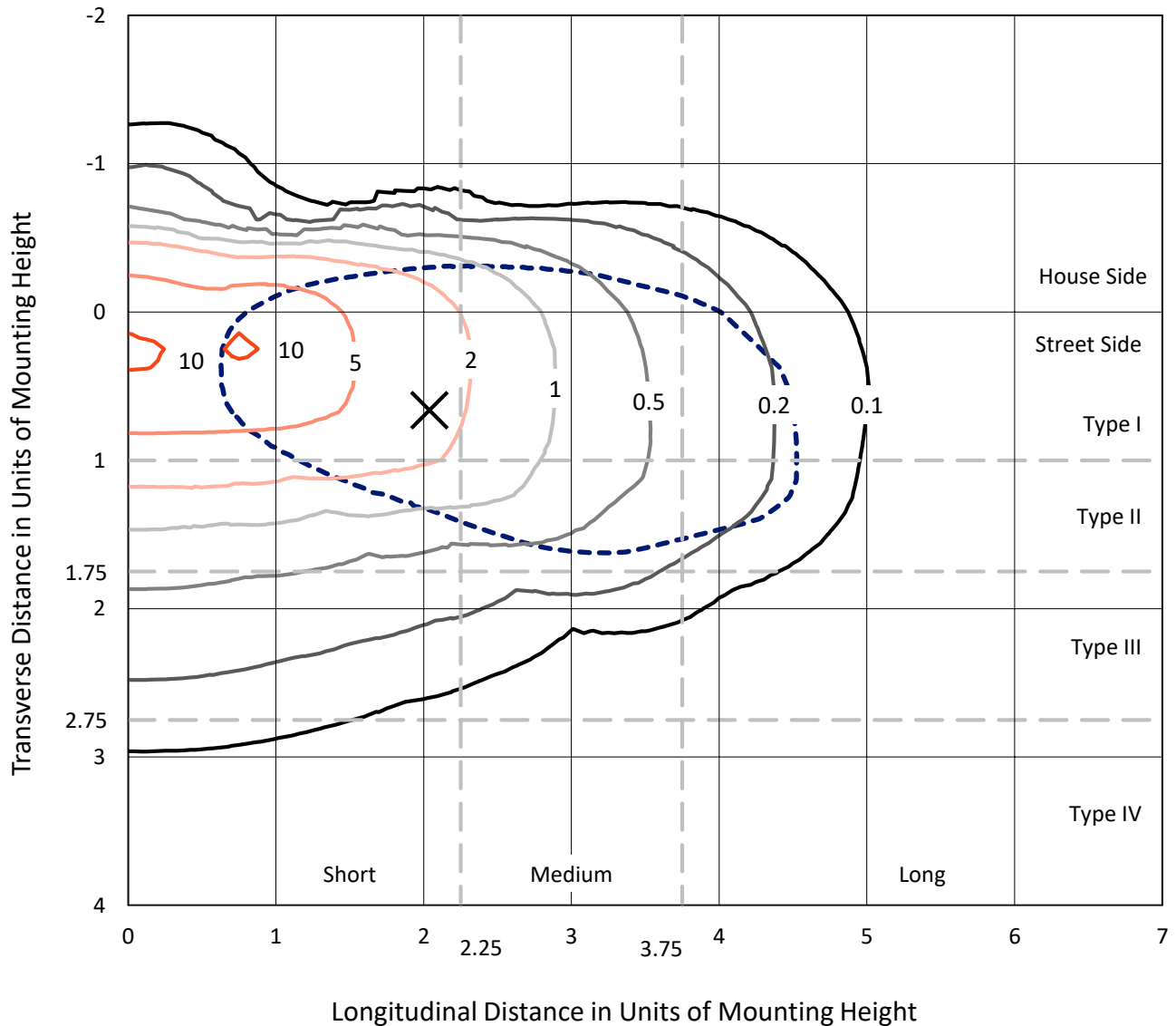
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

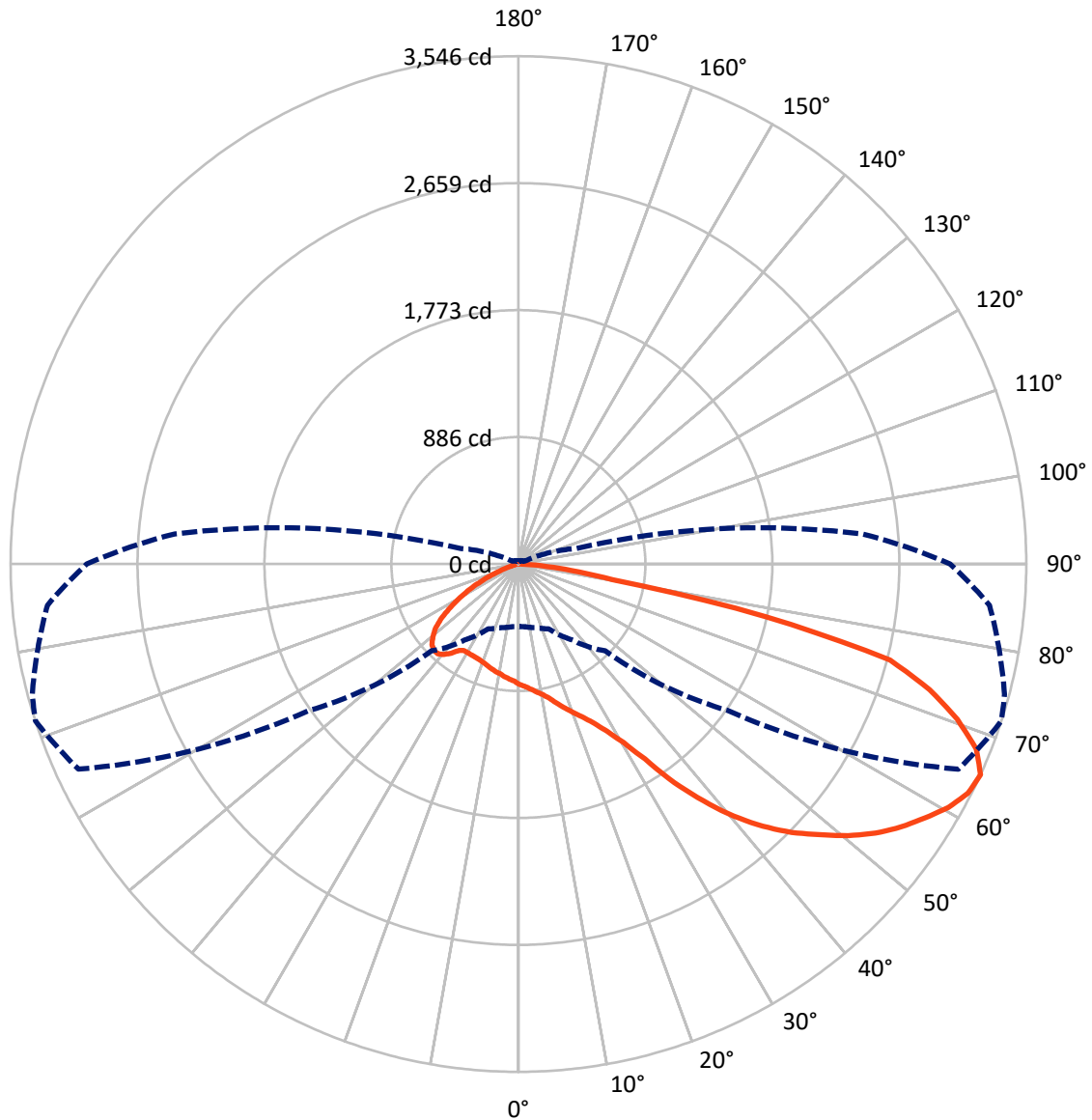
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	991.6	0.0	991.6
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	3780.4	0.0	3780.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	4772.0	0.0	4772.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.7
10°-20°	244.7	5.1
20°-30°	408.9	8.6
30°-40°	604.8	12.7
40°-50°	836.1	17.5
50°-60°	978.4	20.5
60°-70°	972.5	20.4
70°-80°	582.5	12.2
80°-90°	63.4	1.3
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°	4772.0	100.0
0°-180°	4772.0	100.0



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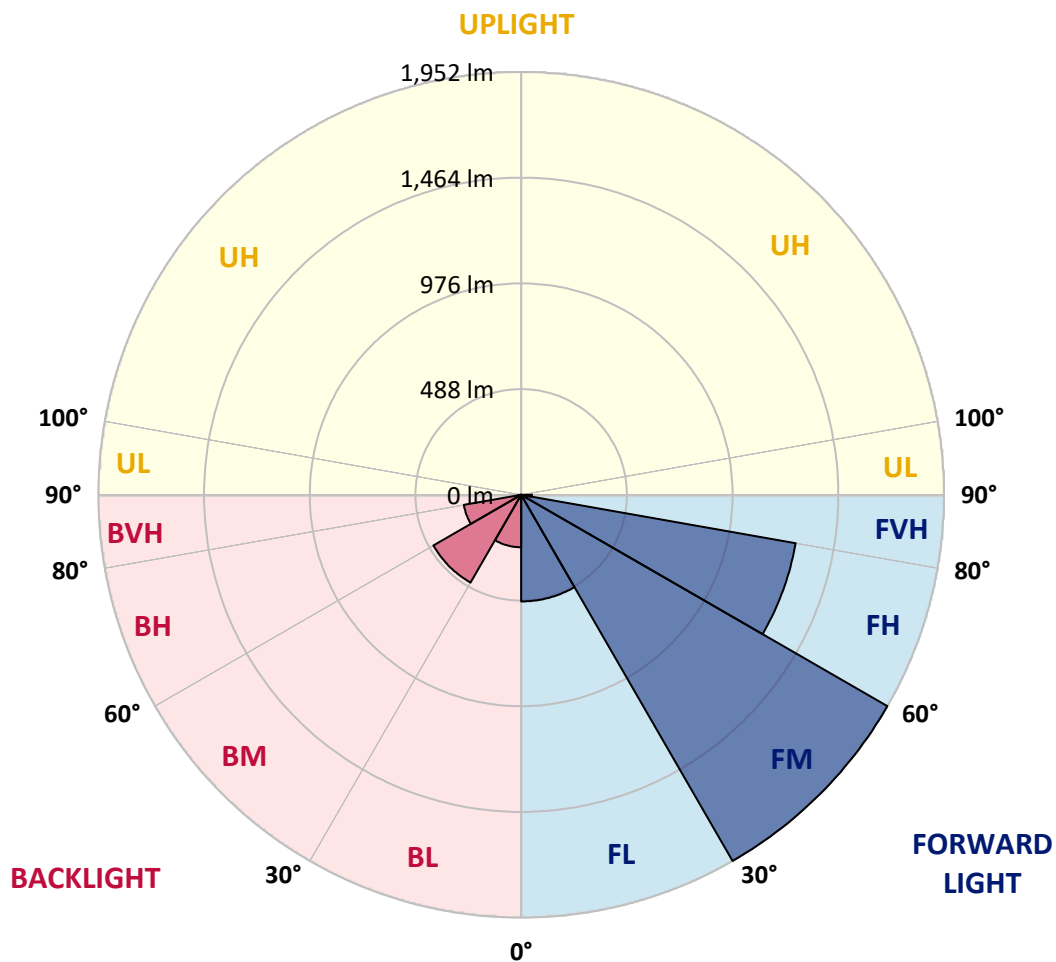
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.1	10.3			
FM (30°-60°)	1951.6	40.9			
FH (60°-80°)	1286.5	27.0			G1/1800
FVH (80°-90°)	50.1	1.1			G1/100
BL (0°-30°)	242.1	5.1	B1/500		
BM (30°-60°)	467.8	9.8	B1/1000		
BH (60°-80°)	268.5	5.6	B1/500		G1/500
BVH (80°-90°)	13.3	0.3			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°	72°	75°	85°
0°	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0
2.5°	911.9	912.7	913.1	898.6	890.9	881.9	873.3	864.0	854.3	850.8	837.9
5°	968.0	968.7	966.4	953.2	938.7	925.5	909.2	892.4	876.1	871.4	849.6
7.5°	1022.1	1021.7	1019.7	1003.0	985.1	967.6	944.6	922.0	900.6	893.2	860.9
10°	1066.8	1067.6	1068.8	1050.9	1033.4	1012.3	984.3	950.8	926.3	914.6	872.6
12.5°	1115.9	1113.6	1116.7	1099.2	1075.0	1055.9	1030.6	991.3	962.1	947.3	895.1
15°	1172.0	1172.0	1167.7	1153.3	1128.8	1105.4	1080.1	1043.9	1008.8	986.3	925.5
17.5°	1210.5	1208.2	1207.0	1194.6	1173.5	1153.3	1133.8	1096.8	1058.7	1031.0	953.9
20°	1226.9	1227.7	1233.1	1224.2	1212.9	1200.8	1179.4	1150.6	1108.5	1078.9	984.3
22.5°	1258.4	1259.2	1265.8	1259.6	1256.5	1253.4	1233.5	1208.2	1163.4	1135.0	1022.5
25°	1260.4	1261.1	1279.1	1289.2	1305.1	1312.5	1298.9	1277.1	1231.5	1203.9	1079.3
27.5°	1266.2	1268.5	1286.8	1314.9	1356.9	1371.7	1363.9	1363.2	1324.6	1295.4	1153.3
30°	1261.1	1263.5	1290.0	1328.9	1387.3	1430.9	1439.9	1462.8	1447.3	1425.5	1256.1
32.5°	1225.3	1233.9	1265.4	1327.3	1413.4	1492.4	1521.2	1599.9	1623.2	1625.6	1462.4
35°	1160.3	1165.0	1222.2	1309.4	1430.9	1550.4	1629.9	1775.1	1874.0	1869.7	1691.0
37.5°	1110.8	1112.4	1171.2	1279.1	1440.6	1612.7	1753.7	1986.1	2099.8	2104.9	1897.4
40°	1047.4	1058.7	1115.1	1242.5	1435.2	1665.3	1876.7	2182.8	2315.1	2309.7	2078.4
42.5°	988.2	994.8	1050.9	1185.2	1415.3	1705.4	1997.4	2373.2	2503.2	2485.3	2252.1
45°	926.7	938.0	989.4	1111.2	1376.0	1728.0	2106.8	2553.8	2673.0	2650.8	2405.1
47.5°	865.2	873.3	927.8	1043.5	1302.0	1727.2	2214.3	2723.2	2823.6	2808.1	2549.9
50°	658.4	676.3	819.6	972.6	1198.1	1694.5	2301.1	2884.0	2981.7	2957.6	2691.3
52.5°	603.5	609.4	649.5	890.5	1087.1	1616.6	2368.9	3035.1	3121.1	3093.5	2824.4
55°	570.4	577.4	593.8	723.8	996.0	1488.5	2396.9	3176.0	3240.3	3212.2	2943.2
57.5°	526.4	533.4	565.7	623.4	901.0	1293.5	2355.6	3301.0	3345.8	3315.0	3053.4
60°	496.0	499.2	530.3	575.5	797.0	1096.4	2217.8	3402.6	3449.3	3412.7	3162.4
62.5°	468.0	471.5	493.7	538.5	711.0	952.0	2003.3	3427.5	3522.9	3494.5	3262.1
65°	435.7	438.8	459.1	498.8	644.4	857.8	1782.1	3389.4	3545.5	3513.2	3300.6
67.5°	392.9	397.1	413.1	448.9	557.2	751.1	1453.1	3318.9	3446.6	3413.1	3221.6
70°	339.9	341.9	360.9	393.3	470.7	651.8	1139.7	3068.2	3250.8	3213.8	2998.9
72.5°	274.5	278.0	298.6	332.5	386.6	536.9	814.2	2651.2	3002.8	2988.7	2674.5
75°	183.4	197.0	246.1	280.3	319.7	419.3	546.7	1860.8	2680.8	2691.7	2284.8
77.5°	35.0	36.2	103.2	153.4	186.9	256.2	338.4	914.2	1766.9	1958.1	1722.9
80°	23.0	24.9	44.0	107.5	123.8	126.9	173.7	400.7	665.8	842.2	993.6
82.5°	12.1	14.4	26.5	62.3	56.8	31.5	56.8	206.8	369.1	424.0	501.1
85°	5.1	5.8	12.8	21.4	16.0	13.2	13.2	82.5	163.5	189.2	196.6
87.5°	0.8	0.8	2.7	3.9	2.3	1.6	1.2	0.4	0.4	0.4	0.4
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°	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0	841.0
2.5°	837.9	830.9	821.2	809.9	801.7	797.4	793.9	784.6	781.4	787.7	786.1
5°	841.4	833.2	811.0	792.7	774.4	763.1	750.7	734.3	727.3	731.2	730.1
7.5°	843.7	833.6	800.5	772.1	741.3	719.9	703.6	682.2	671.6	675.5	670.9
10°	847.2	832.1	788.1	750.3	710.2	679.0	654.9	630.0	619.1	622.2	618.3
12.5°	862.0	837.5	782.2	731.6	682.5	643.6	613.2	586.8	571.2	574.3	571.2
15°	886.2	848.4	773.7	707.9	653.3	609.0	573.9	543.5	525.6	529.9	526.0
17.5°	911.5	861.7	765.9	681.4	622.2	572.8	536.2	510.5	481.6	484.4	478.5
20°	933.3	874.1	761.6	656.5	593.0	534.2	490.2	472.7	433.0	422.8	416.2
22.5°	963.7	892.4	758.1	636.2	556.8	495.7	443.5	410.8	367.9	346.5	344.6
25°	1006.9	919.7	757.7	620.3	524.1	455.2	382.4	327.5	289.7	264.4	260.9
27.5°	1061.8	955.9	762.0	604.3	491.4	404.2	307.2	246.5	212.6	193.1	189.6
30°	1140.8	1003.4	767.4	586.0	454.8	338.0	228.9	181.4	153.4	139.4	136.7
32.5°	1310.2	1125.3	775.6	566.9	410.8	254.6	166.3	131.6	110.2	101.6	105.9
35°	1514.2	1290.7	812.2	542.4	353.2	181.4	119.9	93.8	79.0	81.0	83.3
37.5°	1692.6	1448.8	894.4	510.8	276.1	133.2	82.5	70.1	70.1	76.3	81.8
40°	1860.8	1591.3	968.0	468.0	193.5	91.9	63.9	65.0	63.9	67.7	66.6
42.5°	2019.6	1726.4	1025.6	417.0	126.5	63.5	58.0	60.4	58.4	59.2	55.7
45°	2169.9	1866.2	1057.5	341.9	84.1	55.3	53.3	57.2	56.8	56.1	52.6
47.5°	2308.9	1989.2	1073.5	246.5	58.0	49.8	50.2	53.0	54.1	53.3	51.4
50°	2445.2	2111.9	1059.1	147.6	52.2	45.6	48.3	48.3	50.6	46.3	44.8
52.5°	2575.6	2234.9	1013.5	89.6	47.9	42.4	44.8	44.0	45.2	40.9	40.1
55°	2698.3	2326.4	923.6	70.5	45.2	40.5	40.9	41.7	39.7	35.0	36.6
57.5°	2827.9	2404.3	798.2	63.9	44.0	37.8	38.5	38.2	35.0	30.8	30.8
60°	2934.6	2460.8	672.4	58.0	43.2	37.0	34.3	33.5	28.8	26.5	26.1
62.5°	3008.2	2476.7	549.8	51.8	40.9	34.3	30.8	28.4	24.1	21.8	21.0
65°	3014.0	2408.6	418.6	46.7	38.5	31.9	28.4	23.4	19.1	17.1	16.4
67.5°	2894.5	2219.4	295.1	42.8	34.7	29.6	24.9	18.7	15.2	13.6	13.2
70°	2644.5	1984.2	180.7	37.4	31.5	27.6	25.7	15.2	12.5	10.5	10.5
72.5°	2320.6	1718.6	105.9	31.9	26.5	22.2	17.1	12.8	10.5	8.2	8.2
75°	1988.9	1364.3	65.0	24.1	19.5	17.5	13.2	10.9	8.6	6.2	6.2
77.5°	1432.1	1007.3	50.6	15.6	12.1	12.5	9.7	8.6	7.0	5.1	5.1
80°	878.8	613.2	36.2	10.5	7.0	7.0	7.0	6.6	5.1	4.3	3.9
82.5°	445.4	280.3	17.9	6.2	4.3	4.3	4.3	4.7	3.9	3.1	3.1
85°	156.5	78.7	5.5	3.1	2.7	2.7	2.3	2.3	1.9	1.6	1.6
87.5°	0.4	0.8	0.8	1.2	1.6	1.6	1.2	0.8	0.4	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)