

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: P233768

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
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-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5367 lumens
Efficiency: N/A
Efficacy: 107.3 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

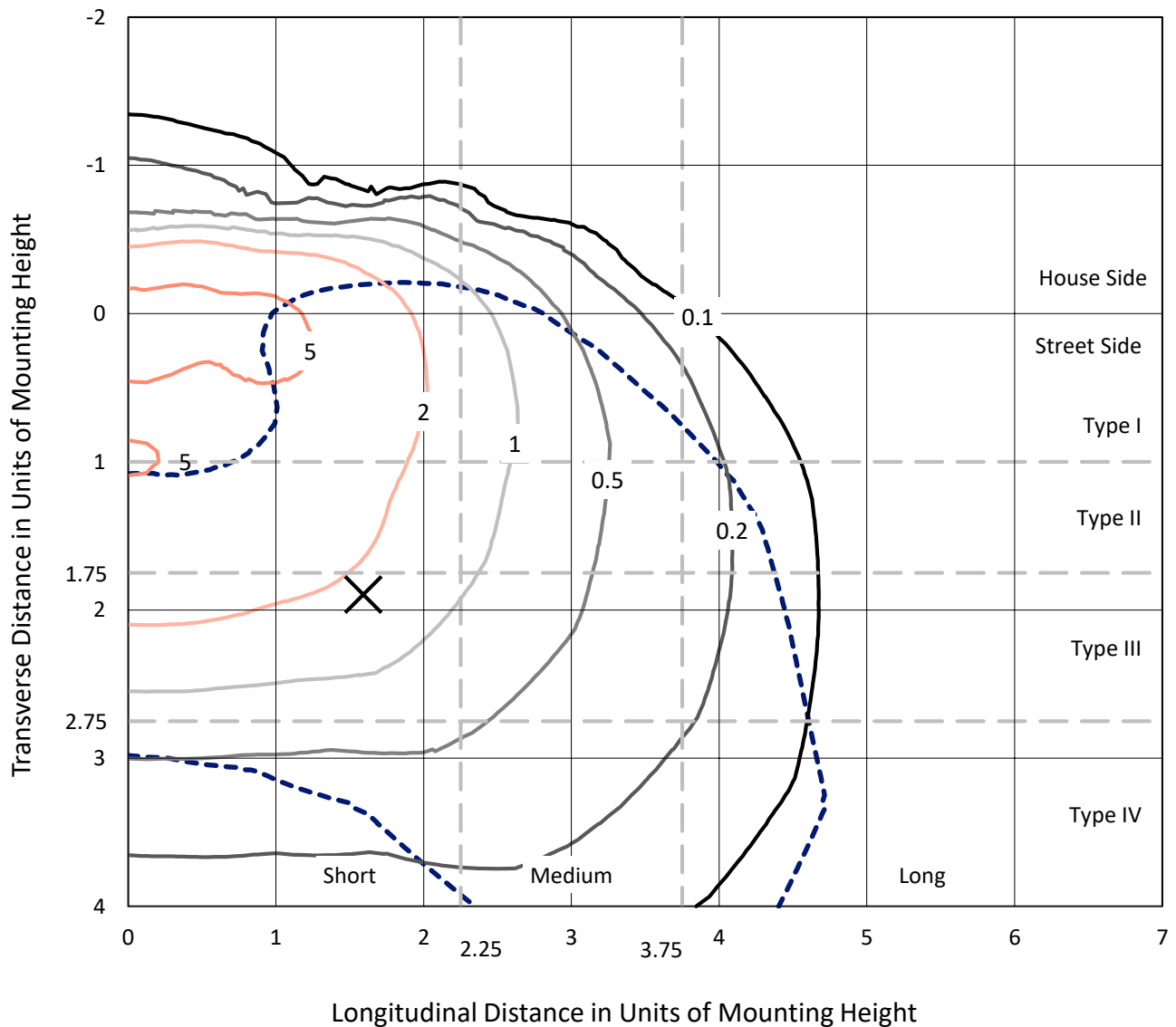
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

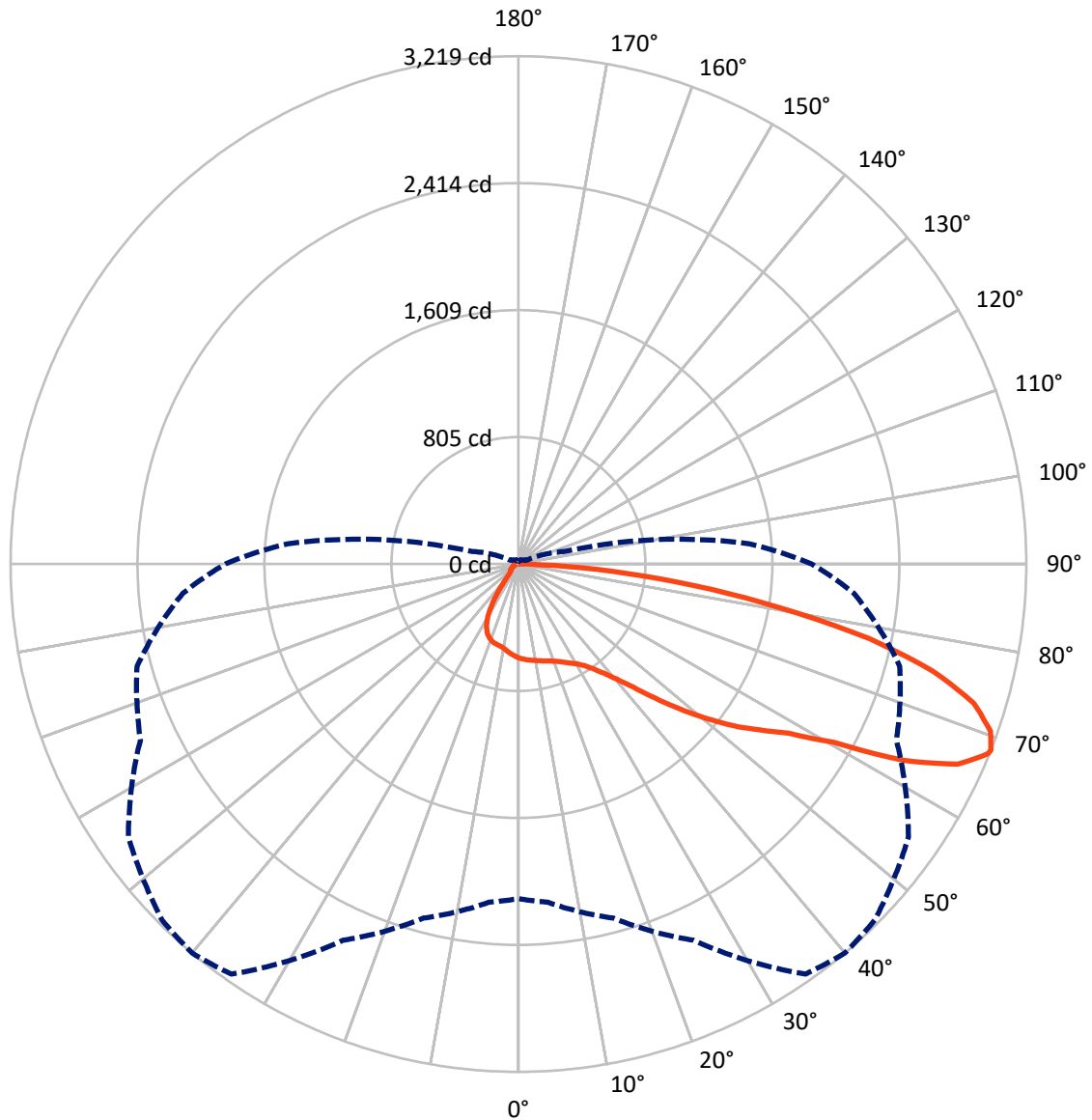
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	870.6	0.0	870.6
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	4496.4	0.0	4496.4
	% Fixture	83.8	0.0	83.8
Total	Lumens	5367.0	0.0	5367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.1
10°-20°	169.5	3.2
20°-30°	284.4	5.3
30°-40°	421.2	7.8
40°-50°	712.6	13.3
50°-60°	1087.5	20.3
60°-70°	1424.0	26.5
70°-80°	1023.8	19.1
80°-90°	187.4	3.5
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°	5367.0	100.0
0°-180°	5367.0	100.0

Coefficient of Utilization



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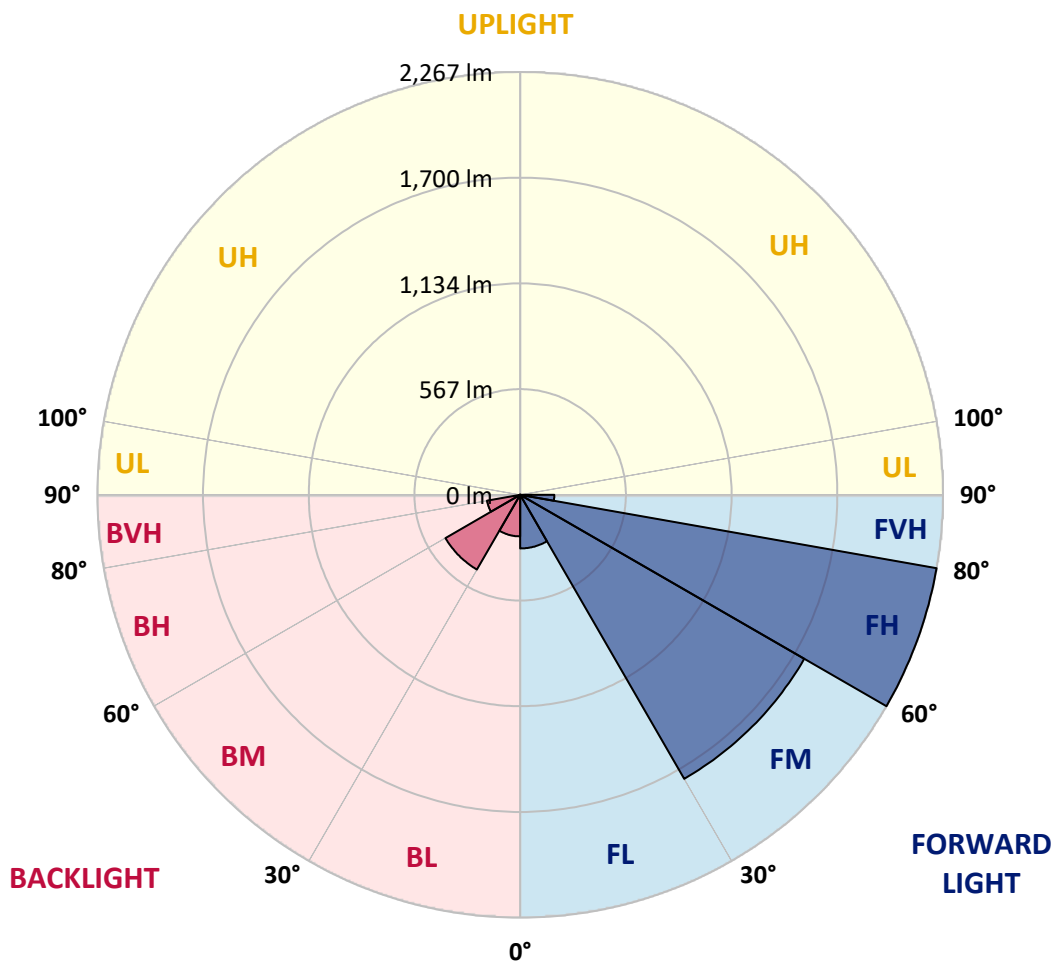
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.7	5.4			
FM	(30°-60°)	1758.6	32.8			
FH	(60°-80°)	2267.1	42.2			G2/5000
FVH	(80°-90°)	183.0	3.4			G2/225
BL	(0°-30°)	222.8	4.2	B1/500		
BM	(30°-60°)	462.7	8.6	B1/1000		
BH	(60°-80°)	180.7	3.4	B1/500		G1/500
BVH	(80°-90°)	4.4	0.1			G0/10
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°	40°	45°	55°	65°	75°	85°
0°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4
2.5°	615.3	616.6	614.8	610.3	605.4	602.7	602.2	601.8	599.5	596.4	591.9
5°	621.5	622.0	620.2	616.6	612.1	611.2	609.9	610.3	609.0	605.8	600.9
7.5°	624.2	625.1	622.9	619.3	615.7	615.7	615.3	616.6	615.7	614.4	608.5
10°	623.3	624.7	623.3	622.0	620.6	622.0	621.1	624.2	624.7	624.7	617.9
12.5°	622.0	623.8	624.2	625.6	627.8	629.2	631.0	637.7	640.9	643.1	637.7
15°	623.3	624.2	627.8	630.1	634.6	637.7	641.8	653.0	658.4	664.7	662.0
17.5°	629.2	631.4	636.8	639.1	643.6	645.8	650.8	664.7	675.5	686.7	688.5
20°	641.8	643.1	652.1	653.0	655.3	657.5	662.9	678.2	694.4	710.5	715.0
22.5°	655.7	658.8	667.4	666.0	670.5	671.4	676.4	693.0	715.5	735.2	745.1
25°	670.1	672.8	681.3	682.2	687.6	691.2	697.0	713.2	742.0	767.2	784.7
27.5°	682.2	687.6	695.7	696.6	706.9	711.4	720.0	738.4	773.0	804.0	832.8
30°	704.7	706.0	713.7	716.4	730.3	734.3	744.2	767.6	809.9	848.5	893.4
32.5°	732.6	732.1	739.3	743.8	760.9	768.1	780.6	807.6	854.3	902.4	966.2
35°	783.8	779.3	783.8	788.3	808.1	815.7	829.2	869.6	924.5	1006.2	1084.9
37.5°	901.5	894.8	885.4	862.9	867.8	877.7	897.5	952.3	1033.2	1185.1	1261.1
40°	1105.6	1090.7	1051.2	991.9	956.8	957.7	976.1	1048.0	1166.7	1390.0	1447.1
42.5°	1290.3	1279.9	1232.3	1151.0	1070.1	1065.6	1071.9	1155.9	1312.3	1580.2	1609.8
45°	1464.2	1469.1	1399.9	1336.1	1239.5	1209.8	1202.2	1271.0	1473.6	1749.6	1752.3
47.5°	1625.1	1633.2	1549.6	1489.4	1394.1	1368.5	1344.7	1391.8	1626.0	1893.8	1871.8
50°	1798.1	1804.4	1688.5	1639.0	1559.0	1535.2	1517.2	1537.9	1781.9	2027.8	1978.3
52.5°	2037.2	2002.2	1856.5	1774.8	1703.7	1701.9	1688.0	1701.0	1959.5	2148.2	2059.2
55°	2319.4	2227.8	2073.2	1942.4	1851.2	1856.1	1839.5	1861.0	2135.2	2251.6	2134.3
57.5°	2419.2	2417.0	2345.1	2219.7	2034.5	2023.3	1994.5	2018.8	2287.1	2348.2	2187.3
60°	2557.6	2569.8	2577.9	2502.4	2395.4	2293.4	2197.2	2195.0	2428.7	2436.3	2213.4
62.5°	2647.1	2658.3	2721.2	2711.3	2777.4	2743.7	2634.0	2390.9	2537.0	2493.4	2223.3
65°	2479.9	2507.8	2666.4	2787.3	3012.4	3059.6	3043.9	2692.0	2610.7	2510.0	2204.8
67.5°	2177.4	2213.8	2387.8	2670.4	3158.1	3210.6	3181.9	2995.4	2642.6	2502.8	2154.1
68°	2120.8	2152.3	2323.0	2631.3	3172.9	3218.7	3192.7	3017.8	2643.9	2501.9	2134.7
70°	1848.5	1874.1	2040.8	2430.9	3131.5	3174.2	3170.6	3039.0	2632.2	2474.0	2004.9
72.5°	1434.1	1459.7	1607.6	2016.1	2940.5	3018.7	3015.6	2954.5	2610.7	2332.0	1680.8
75°	1036.8	1065.1	1199.9	1549.1	2544.6	2716.7	2751.3	2809.8	2386.4	1962.6	1195.9
77.5°	748.7	769.4	885.8	1170.3	2078.6	2275.4	2345.5	2404.4	1953.2	1430.5	569.0
80°	499.3	514.1	626.5	870.1	1565.8	1681.7	1757.2	1658.8	1111.4	517.3	61.6
82.5°	307.4	316.8	405.4	610.3	1083.1	1119.5	1119.9	884.9	358.2	49.4	33.3
85°	164.9	168.1	220.2	333.0	572.1	599.5	588.7	371.7	72.4	26.5	18.0
87.5°	26.5	28.8	69.2	124.9	176.6	136.2	87.2	27.4	7.2	4.0	2.7
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°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4
2.5°	594.1	592.8	589.2	587.4	582.9	584.2	584.2	580.6	582.4	589.6	588.7
5°	599.5	600.0	591.4	586.9	577.1	574.4	570.3	564.9	564.5	569.4	569.9
7.5°	604.0	606.3	594.1	585.1	571.7	562.2	554.1	544.7	542.4	545.6	545.6
10°	611.2	613.5	598.2	585.6	565.8	550.5	536.6	524.5	519.5	519.5	520.0
12.5°	630.1	628.7	611.2	591.9	568.5	544.2	522.2	506.0	494.4	493.9	492.1
15°	656.1	651.2	634.1	604.9	574.8	543.8	513.2	488.1	467.8	462.5	460.2
17.5°	684.0	677.7	657.0	621.5	584.7	543.3	502.9	467.8	434.1	421.1	417.1
20°	714.1	706.5	685.4	640.9	594.6	540.2	487.6	438.6	392.8	368.1	361.8
22.5°	747.4	741.1	715.5	660.6	601.3	533.5	463.8	401.8	343.4	307.9	305.2
25°	790.5	784.7	746.9	678.2	601.8	520.9	432.3	354.6	281.3	239.5	231.0
27.5°	842.2	831.9	772.1	689.0	594.6	498.9	391.4	291.7	209.0	173.9	173.0
30°	898.4	879.5	792.3	691.7	578.4	463.8	335.3	214.4	148.3	124.5	124.5
32.5°	964.5	929.8	813.0	687.2	551.9	415.3	256.6	148.8	102.0	90.8	90.8
35°	1061.1	1007.6	839.5	675.9	514.6	348.3	182.5	98.4	80.4	79.1	79.1
37.5°	1213.9	1124.9	875.5	657.0	463.3	265.6	118.6	76.0	76.9	76.9	76.4
40°	1376.6	1260.6	924.9	626.9	399.1	183.4	77.7	71.9	73.3	74.2	73.7
42.5°	1523.5	1389.6	978.8	586.5	323.1	115.5	71.0	69.2	68.3	69.2	69.7
45°	1650.7	1501.5	1033.2	533.9	238.6	75.5	69.2	65.2	62.5	62.9	63.4
47.5°	1759.5	1589.6	1070.1	478.6	158.2	67.0	67.0	59.8	57.1	57.1	57.1
50°	1854.7	1667.8	1092.5	412.6	94.4	66.1	62.9	54.8	52.1	51.7	52.1
52.5°	1924.0	1722.6	1089.8	332.1	63.4	63.8	57.5	50.3	47.2	48.1	48.5
55°	1978.8	1757.2	1066.0	243.1	59.3	59.8	53.5	45.4	43.1	43.6	43.6
57.5°	2013.4	1765.8	1017.5	158.2	58.0	53.5	48.1	40.4	37.8	37.8	37.8
60°	2024.6	1761.3	951.4	101.1	57.5	48.1	43.6	36.4	33.7	33.7	33.7
62.5°	2015.2	1735.2	839.5	72.8	53.5	44.9	39.5	32.4	29.7	28.8	28.8
65°	1981.5	1665.5	647.2	60.2	48.1	41.3	36.0	29.2	25.6	24.3	23.8
67.5°	1883.1	1514.5	376.6	56.6	43.6	37.8	33.3	26.5	22.5	20.2	19.8
68°	1857.4	1469.6	309.6	56.2	43.6	37.3	32.8	25.6	21.6	19.3	18.9
70°	1674.1	1185.6	89.0	53.5	42.7	36.0	30.1	23.4	19.3	16.6	16.2
72.5°	1260.6	694.8	55.7	47.6	42.2	31.9	29.2	23.4	17.1	14.4	13.5
75°	703.8	158.2	47.2	35.5	39.5	31.5	28.8	21.1	15.3	11.7	11.2
77.5°	144.7	45.8	40.4	24.7	30.1	27.4	24.3	18.0	13.9	9.0	8.5
80°	40.9	34.2	36.0	18.0	17.1	19.3	18.0	15.7	10.3	6.7	6.7
82.5°	26.5	25.2	32.4	12.1	9.0	9.0	11.7	9.4	9.0	5.4	5.4
85°	16.2	21.1	15.7	5.4	4.5	3.6	4.0	4.0	5.4	3.6	3.6
87.5°	2.2	2.2	2.2	2.2	2.2	1.8	1.3	1.3	1.3	1.8	1.8
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)