

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: P233779

Luminaire Tested: **VERD-C015-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233779
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-C015-D-U-T4-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 750mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3910 lumens
Efficiency: N/A
Efficacy: 130.3 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

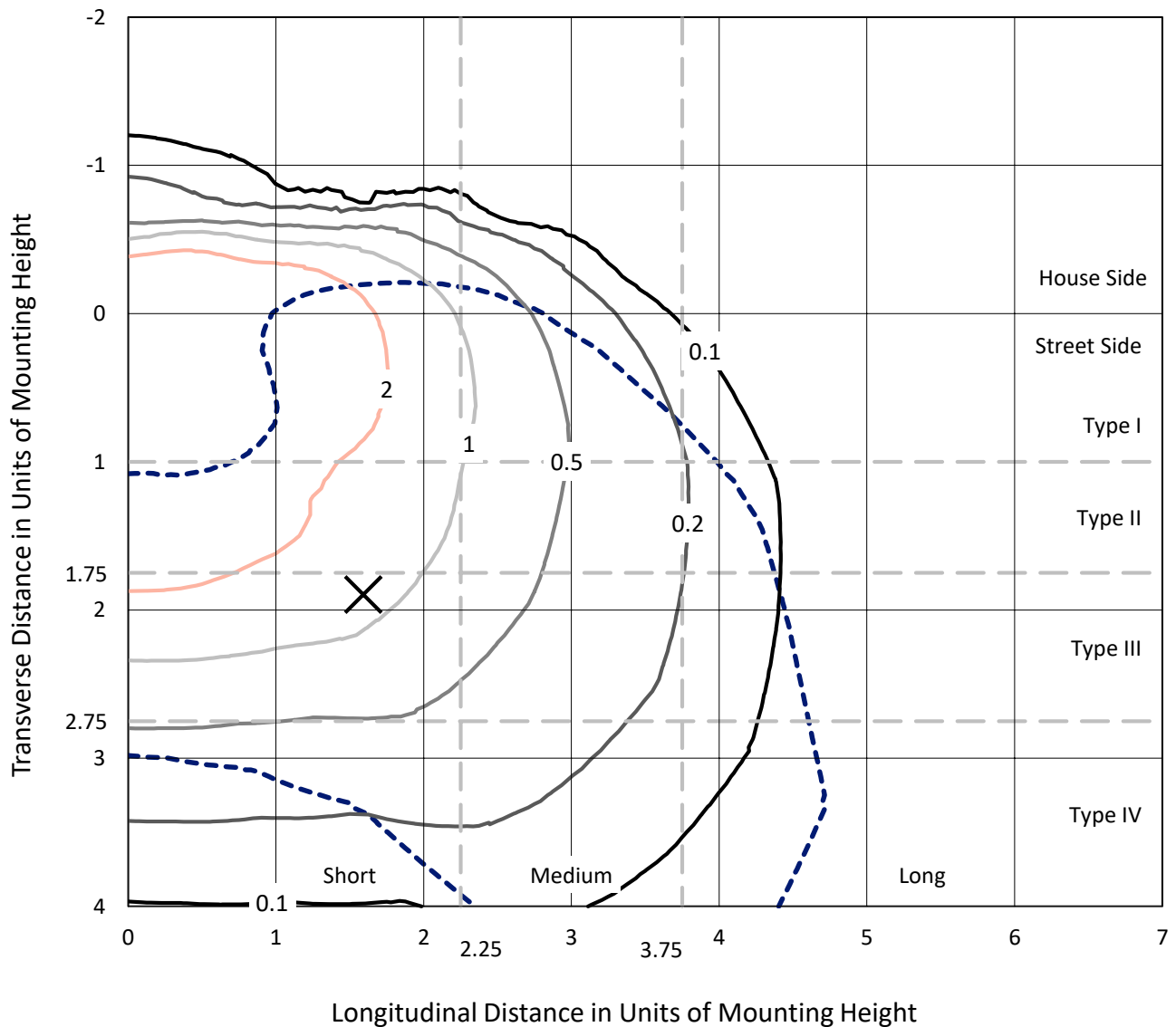
Input Watts (W): 30
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

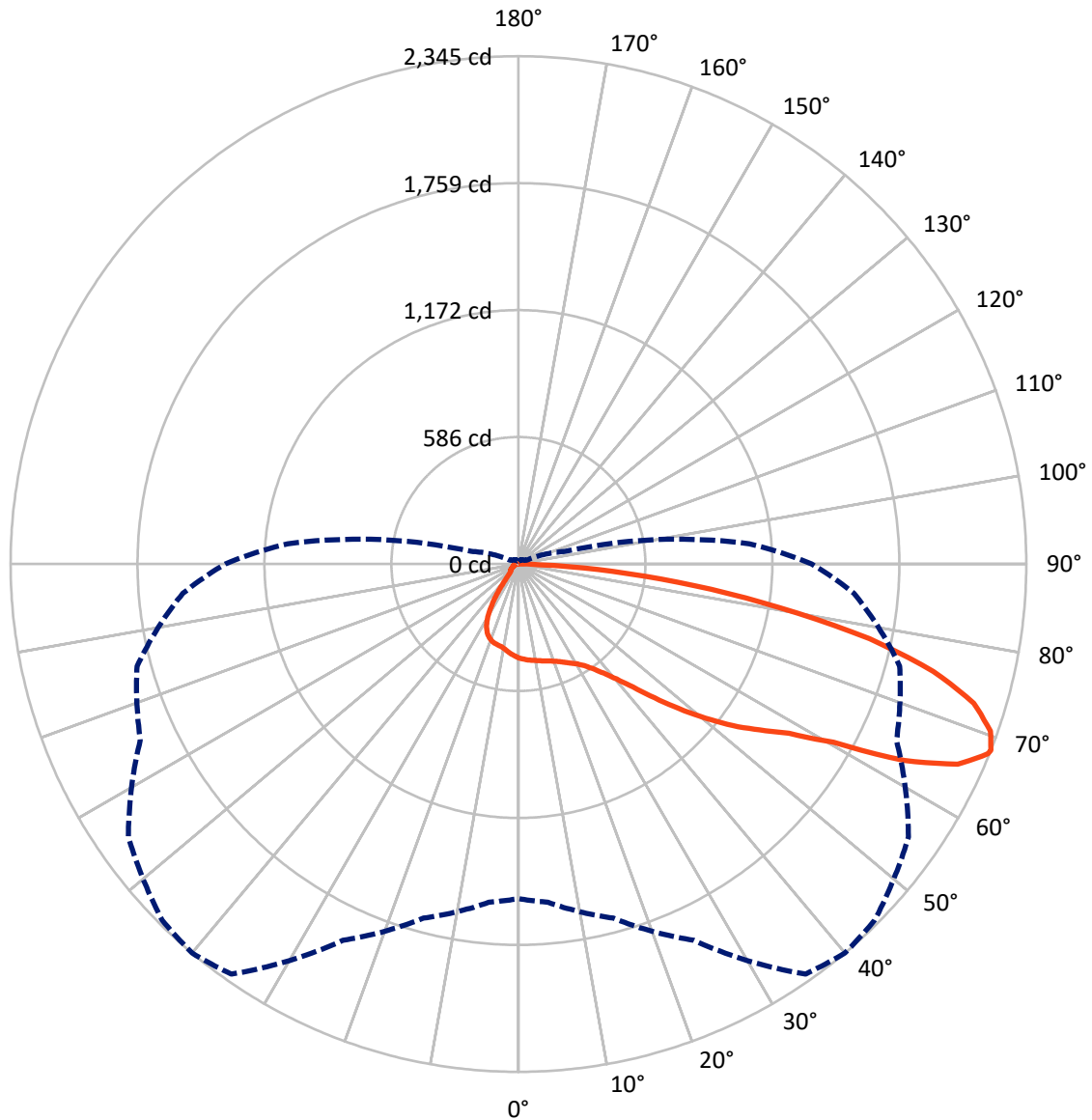
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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	634.3	0.0	634.3
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	3275.7	0.0	3275.7
	% Fixture	83.8	0.0	83.8
Total	Lumens	3910.0	0.0	3910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	1.1
10°-20°	123.5	3.2
20°-30°	207.2	5.3
30°-40°	306.9	7.8
40°-50°	519.1	13.3
50°-60°	792.3	20.3
60°-70°	1037.4	26.5
70°-80°	745.9	19.1
80°-90°	136.5	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°	3910.0	100.0
0°-180°	3910.0	100.0

Coefficient of Utilization



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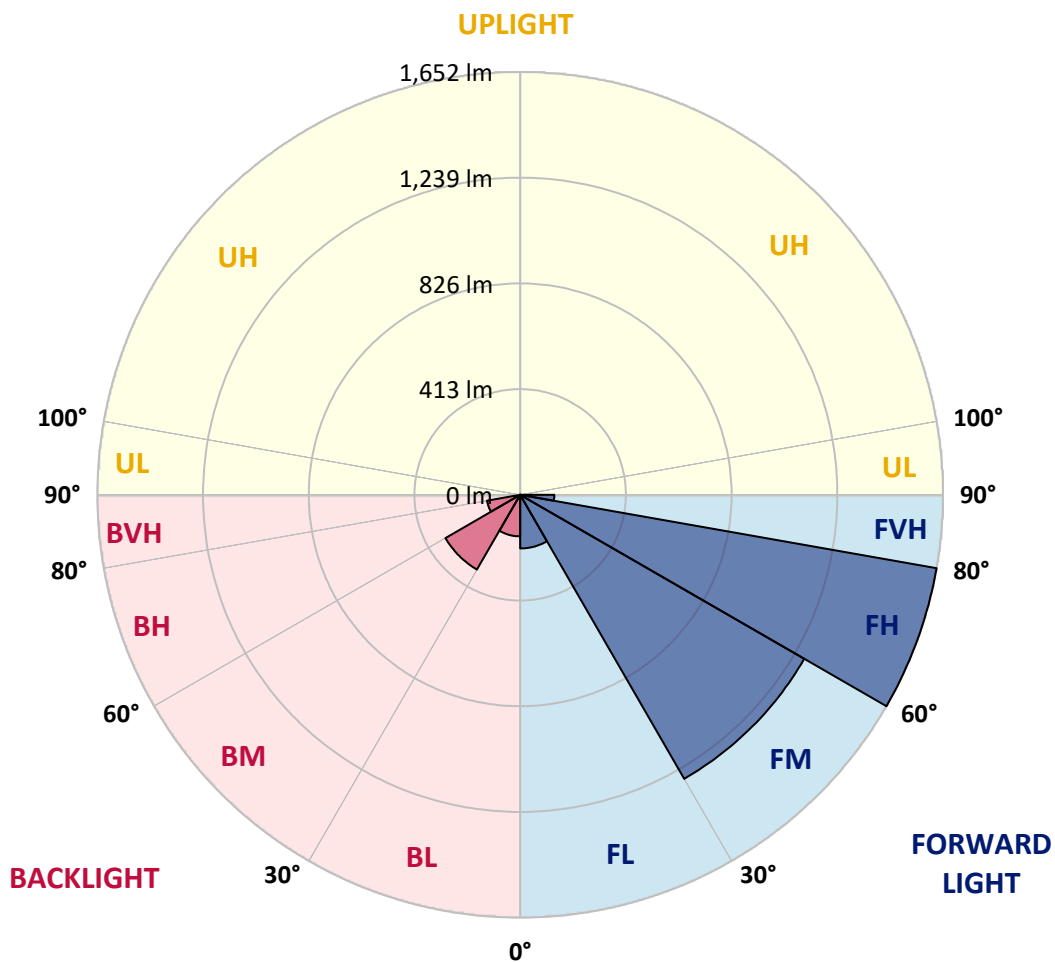
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.6	5.4			
FM (30°-60°)	1281.2	32.8			
FH (60°-80°)	1651.6	42.2			G1/1800
FVH (80°-90°)	133.3	3.4			G2/225
BL (0°-30°)	162.3	4.2	B1/500		
BM (30°-60°)	337.1	8.6	B1/1000		
BH (60°-80°)	131.6	3.4	B1/500		G1/500
BVH (80°-90°)	3.2	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°	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5
2.5°	448.2	449.2	447.9	444.6	441.0	439.1	438.7	438.4	436.8	434.5	431.2
5°	452.8	453.1	451.8	449.2	445.9	445.3	444.3	444.6	443.6	441.4	437.8
7.5°	454.8	455.4	453.8	451.2	448.6	448.6	448.2	449.2	448.6	447.6	443.3
10°	454.1	455.1	454.1	453.1	452.2	453.1	452.5	454.8	455.1	455.1	450.2
12.5°	453.1	454.4	454.8	455.8	457.4	458.4	459.7	464.6	466.9	468.5	464.6
15°	454.1	454.8	457.4	459.0	462.3	464.6	467.5	475.7	479.7	484.2	482.3
17.5°	458.4	460.0	463.9	465.6	468.9	470.5	474.1	484.2	492.1	500.3	501.6
20°	467.5	468.5	475.1	475.7	477.4	479.0	482.9	494.1	505.9	517.6	520.9
22.5°	477.7	480.0	486.2	485.2	488.5	489.2	492.8	504.9	521.2	535.6	542.9
25°	488.2	490.1	496.4	497.0	500.9	503.6	507.8	519.6	540.6	558.9	571.7
27.5°	497.0	500.9	506.8	507.5	515.0	518.3	524.5	537.9	563.1	585.7	606.7
30°	513.4	514.4	519.9	521.9	532.0	535.0	542.2	559.2	590.0	618.2	650.9
32.5°	533.7	533.4	538.6	541.9	554.3	559.5	568.7	588.4	622.4	657.4	703.9
35°	571.0	567.7	571.0	574.3	588.7	594.3	604.1	633.5	673.5	733.1	790.4
37.5°	656.8	651.9	645.0	628.6	632.2	639.4	653.8	693.8	752.7	863.4	918.7
40°	805.4	794.6	765.8	722.6	697.1	697.7	711.1	763.5	850.0	1012.7	1054.3
42.5°	940.0	932.5	897.8	838.5	779.6	776.3	780.9	842.1	956.0	1151.2	1172.8
45°	1066.7	1070.3	1019.9	973.4	903.0	881.4	875.8	925.9	1073.6	1274.6	1276.6
47.5°	1183.9	1189.8	1128.9	1085.0	1015.6	997.0	979.6	1014.0	1184.6	1379.7	1363.7
50°	1310.0	1314.6	1230.1	1194.1	1135.8	1118.4	1105.3	1120.4	1298.2	1477.3	1441.3
52.5°	1484.2	1458.6	1352.5	1293.0	1241.2	1239.9	1229.8	1239.3	1427.5	1565.0	1500.2
55°	1689.8	1623.0	1510.4	1415.1	1348.6	1352.2	1340.1	1355.8	1555.5	1640.3	1554.9
57.5°	1762.5	1760.8	1708.4	1617.1	1482.2	1474.0	1453.1	1470.7	1666.2	1710.7	1593.5
60°	1863.3	1872.1	1878.0	1823.0	1745.1	1670.8	1600.7	1599.1	1769.3	1774.9	1612.5
62.5°	1928.5	1936.6	1982.5	1975.3	2023.4	1998.9	1919.0	1741.8	1848.2	1816.5	1619.7
65°	1806.7	1827.0	1942.5	2030.6	2194.6	2229.0	2217.6	1961.2	1901.9	1828.6	1606.3
67.5°	1586.3	1612.8	1739.5	1945.5	2300.7	2339.0	2318.1	2182.2	1925.2	1823.4	1569.3
68°	1545.1	1568.0	1692.4	1917.0	2311.5	2344.9	2325.9	2198.6	1926.2	1822.7	1555.2
70°	1346.6	1365.3	1486.8	1771.0	2281.4	2312.5	2309.9	2214.0	1917.7	1802.4	1460.6
72.5°	1044.8	1063.4	1171.2	1468.8	2142.3	2199.2	2196.9	2152.4	1901.9	1698.9	1224.5
75°	755.3	776.0	874.2	1128.6	1853.8	1979.2	2004.4	2047.0	1738.6	1429.8	871.2
77.5°	545.5	560.5	645.3	852.6	1514.3	1657.7	1708.8	1751.7	1422.9	1042.2	414.5
80°	363.8	374.6	456.4	633.9	1140.7	1225.2	1280.2	1208.5	809.7	376.9	44.9
82.5°	224.0	230.8	295.3	444.6	789.1	815.6	815.9	644.7	260.9	36.0	24.2
85°	120.2	122.5	160.4	242.6	416.8	436.8	428.9	270.8	52.7	19.3	13.1
87.5°	19.3	21.0	50.4	91.0	128.7	99.2	63.5	20.0	5.2	2.9	2.0
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°	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5
2.5°	432.8	431.9	429.2	427.9	424.7	425.6	425.6	423.0	424.3	429.6	428.9
5°	436.8	437.1	430.9	427.6	420.4	418.4	415.5	411.6	411.2	414.8	415.2
7.5°	440.0	441.7	432.8	426.3	416.5	409.6	403.7	396.8	395.2	397.5	397.5
10°	445.3	446.9	435.8	426.6	412.2	401.1	390.9	382.1	378.5	378.5	378.8
12.5°	459.0	458.1	445.3	431.2	414.2	396.5	380.5	368.7	360.2	359.8	358.5
15°	478.0	474.4	462.0	440.7	418.8	396.2	373.9	355.6	340.8	336.9	335.3
17.5°	498.3	493.7	478.7	452.8	426.0	395.8	366.4	340.8	316.3	306.8	303.8
20°	520.3	514.7	499.3	466.9	433.2	393.5	355.2	319.6	286.2	268.2	263.6
22.5°	544.5	539.9	521.2	481.3	438.1	388.6	337.9	292.7	250.1	224.3	222.3
25°	575.9	571.7	544.2	494.1	438.4	379.5	315.0	258.3	205.0	174.5	168.3
27.5°	613.6	606.0	562.5	501.9	433.2	363.4	285.2	212.5	152.2	126.7	126.1
30°	654.5	640.7	577.2	503.9	421.4	337.9	244.2	156.2	108.0	90.7	90.7
32.5°	702.6	677.4	592.3	500.6	402.1	302.5	187.0	108.4	74.3	66.1	66.1
35°	773.0	734.1	611.6	492.4	374.9	253.7	132.9	71.7	58.6	57.6	57.6
37.5°	884.3	819.5	637.8	478.7	337.6	193.5	86.4	55.3	56.0	56.0	55.7
40°	1002.9	918.4	673.8	456.7	290.7	133.6	56.6	52.4	53.4	54.0	53.7
42.5°	1109.9	1012.4	713.1	427.3	235.4	84.1	51.7	50.4	49.8	50.4	50.7
45°	1202.6	1093.9	752.7	389.0	173.9	55.0	50.4	47.5	45.5	45.8	46.2
47.5°	1281.8	1158.1	779.6	348.7	115.2	48.8	48.8	43.5	41.6	41.6	41.6
50°	1351.2	1215.0	795.9	300.6	68.8	48.1	45.8	39.9	38.0	37.7	38.0
52.5°	1401.7	1255.0	794.0	242.0	46.2	46.5	41.9	36.7	34.4	35.0	35.4
55°	1441.6	1280.2	776.6	177.1	43.2	43.5	39.0	33.1	31.4	31.8	31.8
57.5°	1466.8	1286.4	741.3	115.2	42.2	39.0	35.0	29.5	27.5	27.5	27.5
60°	1475.0	1283.1	693.1	73.7	41.9	35.0	31.8	26.5	24.6	24.6	24.6
62.5°	1468.1	1264.1	611.6	53.0	39.0	32.7	28.8	23.6	21.6	21.0	21.0
65°	1443.6	1213.4	471.5	43.9	35.0	30.1	26.2	21.3	18.7	17.7	17.4
67.5°	1371.9	1103.4	274.4	41.3	31.8	27.5	24.2	19.3	16.4	14.7	14.4
68°	1353.2	1070.6	225.6	40.9	31.8	27.2	23.9	18.7	15.7	14.1	13.8
70°	1219.6	863.7	64.8	39.0	31.1	26.2	21.9	17.0	14.1	12.1	11.8
72.5°	918.4	506.2	40.6	34.7	30.8	23.2	21.3	17.0	12.4	10.5	9.8
75°	512.7	115.2	34.4	25.9	28.8	22.9	21.0	15.4	11.1	8.5	8.2
77.5°	105.4	33.4	29.5	18.0	21.9	20.0	17.7	13.1	10.1	6.5	6.2
80°	29.8	24.9	26.2	13.1	12.4	14.1	13.1	11.5	7.5	4.9	4.9
82.5°	19.3	18.3	23.6	8.8	6.5	6.5	8.5	6.9	6.5	3.9	3.9
85°	11.8	15.4	11.5	3.9	3.3	2.6	2.9	2.9	3.9	2.6	2.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.3	1.0	1.0	1.0	1.3	1.3
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)