

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: P233792

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233792
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-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 750mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4018 lumens
Efficiency: N/A
Efficacy: 133.9 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

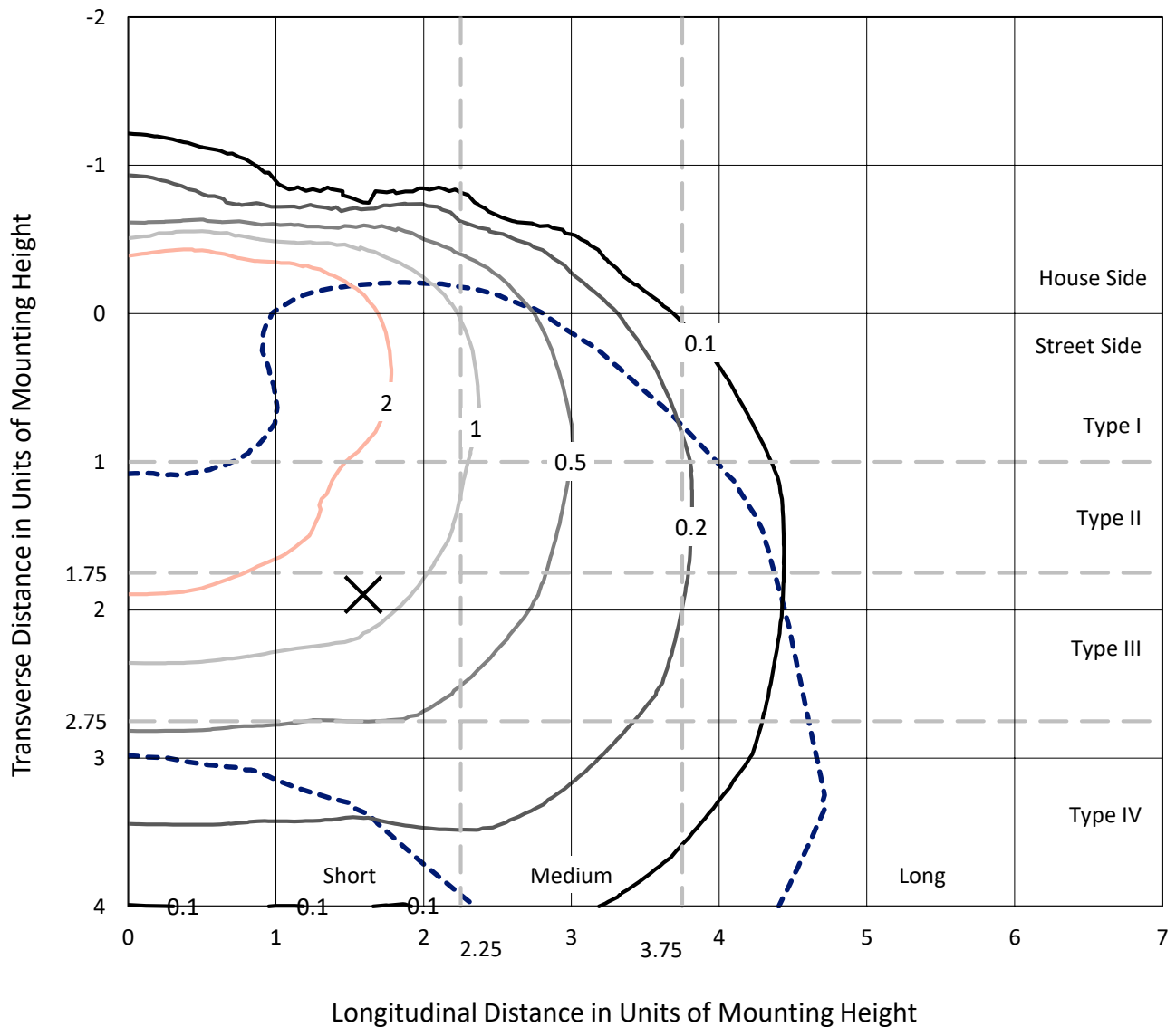


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

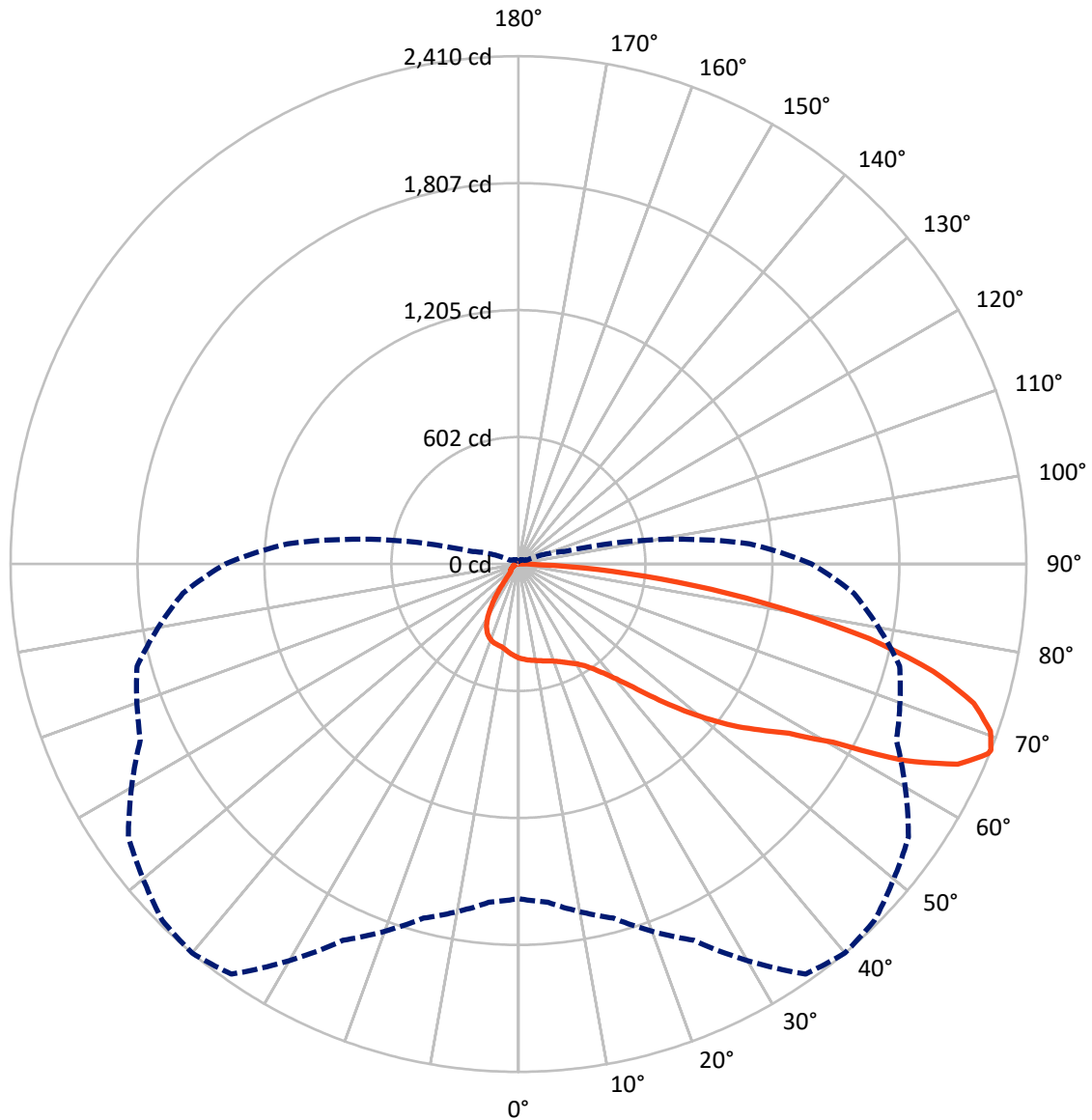


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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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	651.8	0.0	651.8
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	3366.2	0.0	3366.2
	% Fixture	83.8	0.0	83.8
Total	Lumens	4018.0	0.0	4018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	1.1
10°-20°	126.9	3.2
20°-30°	212.9	5.3
30°-40°	315.3	7.8
40°-50°	533.5	13.3
50°-60°	814.2	20.3
60°-70°	1066.1	26.5
70°-80°	766.4	19.1
80°-90°	140.3	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°	4018.0	100.0
0°-180°	4018.0	100.0

Coefficient of Utilization



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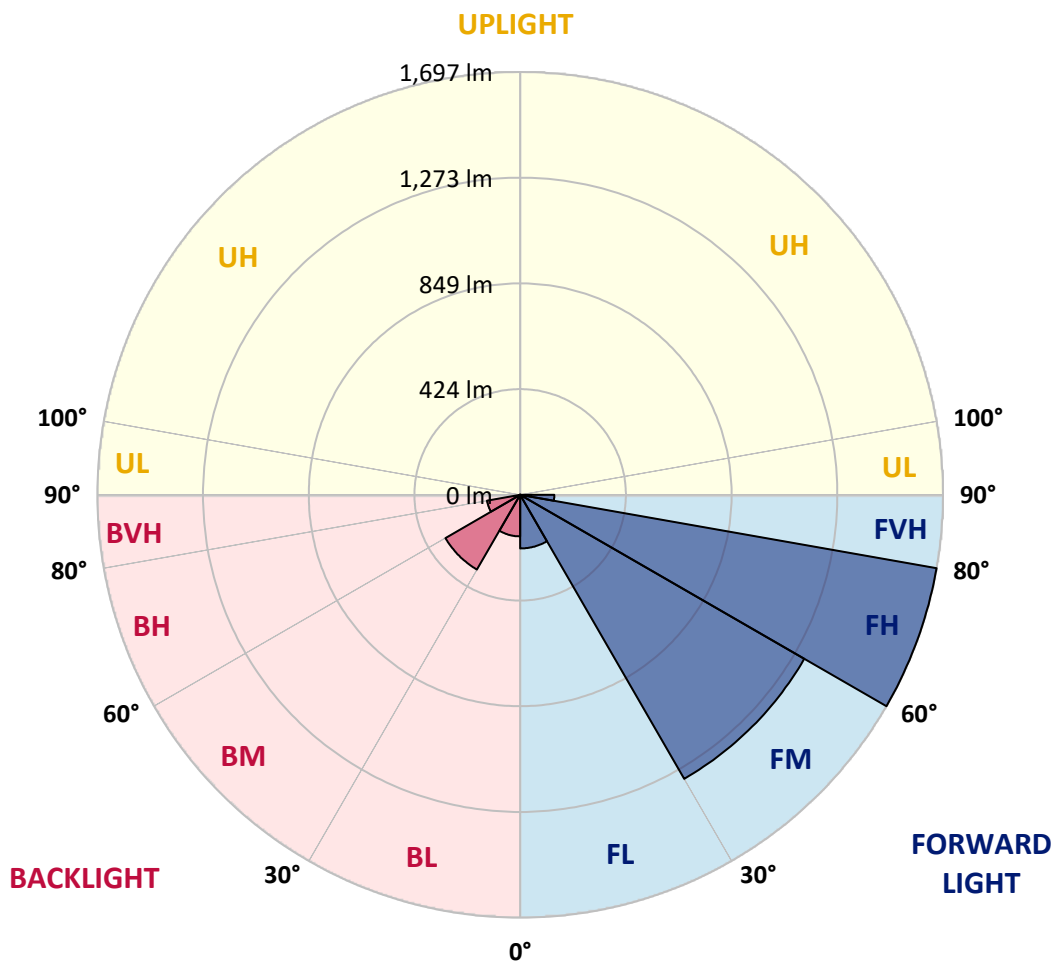
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.4	5.4			
FM (30°-60°)	1316.6	32.8			
FH (60°-80°)	1697.3	42.2			G1/1800
FVH (80°-90°)	137.0	3.4			G2/225
BL (0°-30°)	166.8	4.2	B1/500		
BM (30°-60°)	346.4	8.6	B1/1000		
BH (60°-80°)	135.3	3.4	B1/500		G1/500
BVH (80°-90°)	3.3	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°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	460.6	461.6	460.3	456.9	453.2	451.2	450.9	450.5	448.8	446.5	443.1
5°	465.3	465.7	464.3	461.6	458.3	457.6	456.6	456.9	455.9	453.5	449.8
7.5°	467.3	468.0	466.3	463.6	460.9	460.9	460.6	461.6	460.9	459.9	455.6
10°	466.7	467.7	466.7	465.7	464.6	465.7	465.0	467.3	467.7	467.7	462.6
12.5°	465.7	467.0	467.3	468.3	470.0	471.0	472.4	477.4	479.8	481.5	477.4
15°	466.7	467.3	470.0	471.7	475.1	477.4	480.5	488.9	492.9	497.6	495.6
17.5°	471.0	472.7	476.8	478.4	481.8	483.5	487.2	497.6	505.7	514.1	515.5
20°	480.5	481.5	488.2	488.9	490.6	492.2	496.3	507.7	519.8	531.9	535.3
22.5°	490.9	493.2	499.6	498.6	502.0	502.7	506.4	518.8	535.6	550.4	557.8
25°	501.7	503.7	510.1	510.7	514.8	517.5	521.8	534.0	555.5	574.3	587.5
27.5°	510.7	514.8	520.8	521.5	529.2	532.6	539.0	552.8	578.7	601.9	623.5
30°	527.6	528.6	534.3	536.3	546.7	549.8	557.2	574.7	606.3	635.2	668.9
32.5°	548.4	548.1	553.5	556.8	569.6	575.0	584.4	604.6	639.6	675.6	723.4
35°	586.8	583.4	586.8	590.1	604.9	610.7	620.8	651.0	692.1	753.3	812.2
37.5°	674.9	669.9	662.8	646.0	649.7	657.1	671.9	713.0	773.5	887.2	944.1
40°	827.7	816.6	787.0	742.6	716.3	717.0	730.8	784.6	873.4	1040.7	1083.4
42.5°	966.0	958.2	922.6	861.7	801.1	797.7	802.4	865.4	982.5	1183.0	1205.2
45°	1096.2	1099.9	1048.1	1000.3	927.9	905.7	900.0	951.5	1103.2	1309.8	1311.8
47.5°	1216.6	1222.7	1160.1	1115.0	1043.7	1024.5	1006.7	1042.0	1217.3	1417.8	1401.3
50°	1346.2	1350.9	1264.1	1227.1	1167.2	1149.3	1135.9	1151.4	1334.0	1518.1	1481.1
52.5°	1525.2	1498.9	1389.9	1328.7	1275.5	1274.2	1263.7	1273.5	1466.9	1608.3	1541.6
55°	1736.5	1667.8	1552.1	1454.2	1385.9	1389.6	1377.1	1393.3	1598.5	1685.6	1597.8
57.5°	1811.1	1809.5	1755.6	1661.8	1523.1	1514.7	1493.2	1511.4	1712.2	1758.0	1637.5
60°	1914.8	1923.9	1929.9	1873.4	1793.3	1716.9	1644.9	1643.3	1818.2	1823.9	1657.0
62.5°	1981.7	1990.1	2037.2	2029.8	2079.3	2054.1	1972.0	1789.9	1899.3	1866.7	1664.4
65°	1856.6	1877.4	1996.2	2086.7	2255.3	2290.6	2278.8	2015.4	1954.5	1879.1	1650.7
67.5°	1630.1	1657.4	1787.6	1999.2	2364.3	2403.6	2382.1	2242.5	1978.4	1873.7	1612.6
68°	1587.7	1611.3	1739.1	1970.0	2375.4	2409.7	2390.2	2259.3	1979.4	1873.1	1598.2
70°	1383.8	1403.0	1527.8	1819.9	2344.4	2376.4	2373.7	2275.1	1970.6	1852.2	1500.9
72.5°	1073.6	1092.8	1203.5	1509.3	2201.4	2260.0	2257.6	2211.9	1954.5	1745.9	1258.3
75°	776.2	797.4	898.3	1159.8	1905.0	2033.9	2059.8	2103.5	1786.6	1469.3	895.3
77.5°	560.5	576.0	663.2	876.1	1556.1	1703.5	1756.0	1800.0	1462.2	1070.9	426.0
80°	373.8	384.9	469.0	651.4	1172.2	1259.0	1315.5	1241.9	832.1	387.3	46.1
82.5°	230.1	237.2	303.5	456.9	810.9	838.1	838.4	662.5	268.2	37.0	24.9
85°	123.5	125.8	164.9	249.3	428.3	448.8	440.8	278.2	54.2	19.9	13.5
87.5°	19.9	21.5	51.8	93.5	132.2	101.9	65.3	20.5	5.4	3.0	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°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	444.8	443.8	441.1	439.7	436.4	437.4	437.4	434.7	436.0	441.4	440.8
5°	448.8	449.2	442.8	439.4	432.0	430.0	427.0	422.9	422.6	426.3	426.6
7.5°	452.2	453.9	444.8	438.1	428.0	420.9	414.9	407.8	406.1	408.5	408.5
10°	457.6	459.3	447.8	438.4	423.6	412.2	401.7	392.6	388.9	388.9	389.3
12.5°	471.7	470.7	457.6	443.1	425.6	407.4	391.0	378.8	370.1	369.8	368.4
15°	491.2	487.5	474.7	452.9	430.3	407.1	384.2	365.4	350.3	346.2	344.5
17.5°	512.1	507.4	491.9	465.3	437.7	406.8	376.5	350.3	325.0	315.3	312.2
20°	534.6	528.9	513.1	479.8	445.1	404.4	365.1	328.4	294.1	275.6	270.8
22.5°	559.5	554.8	535.6	494.6	450.2	399.4	347.2	300.8	257.1	230.5	228.5
25°	591.8	587.5	559.2	507.7	450.5	390.0	323.7	265.5	210.6	179.3	172.9
27.5°	630.5	622.8	578.0	515.8	445.1	373.5	293.1	218.4	156.5	130.2	129.5
30°	672.6	658.4	593.2	517.8	433.0	347.2	251.0	160.5	111.0	93.2	93.2
32.5°	722.0	696.1	608.6	514.4	413.2	310.9	192.1	111.4	76.4	68.0	68.0
35°	794.4	754.3	628.5	506.0	385.2	260.8	136.6	73.7	60.2	59.2	59.2
37.5°	908.8	842.1	655.4	491.9	346.9	198.8	88.8	56.9	57.5	57.5	57.2
40°	1030.6	943.8	692.4	469.4	298.8	137.3	58.2	53.8	54.8	55.5	55.2
42.5°	1140.6	1040.3	732.8	439.1	241.9	86.5	53.2	51.8	51.1	51.8	52.2
45°	1235.8	1124.1	773.5	399.7	178.7	56.5	51.8	48.8	46.8	47.1	47.4
47.5°	1317.2	1190.0	801.1	358.3	118.4	50.1	50.1	44.7	42.7	42.7	42.7
50°	1388.6	1248.6	817.9	308.9	70.7	49.5	47.1	41.0	39.0	38.7	39.0
52.5°	1440.4	1289.6	815.9	248.6	47.4	47.8	43.1	37.7	35.3	36.0	36.3
55°	1481.4	1315.5	798.1	182.0	44.4	44.7	40.0	34.0	32.3	32.6	32.6
57.5°	1507.3	1321.9	761.7	118.4	43.4	40.0	36.0	30.3	28.3	28.3	28.3
60°	1515.7	1318.6	712.3	75.7	43.1	36.0	32.6	27.3	25.2	25.2	25.2
62.5°	1508.7	1299.1	628.5	54.5	40.0	33.6	29.6	24.2	22.2	21.5	21.5
65°	1483.4	1246.9	484.5	45.1	36.0	31.0	26.9	21.9	19.2	18.2	17.8
67.5°	1409.8	1133.9	282.0	42.4	32.6	28.3	24.9	19.9	16.8	15.1	14.8
68°	1390.6	1100.2	231.8	42.1	32.6	27.9	24.6	19.2	16.1	14.5	14.1
70°	1253.3	887.6	66.6	40.0	32.0	26.9	22.5	17.5	14.5	12.4	12.1
72.5°	943.8	520.2	41.7	35.7	31.6	23.9	21.9	17.5	12.8	10.8	10.1
75°	526.9	118.4	35.3	26.6	29.6	23.6	21.5	15.8	11.4	8.7	8.4
77.5°	108.3	34.3	30.3	18.5	22.5	20.5	18.2	13.5	10.4	6.7	6.4
80°	30.6	25.6	26.9	13.5	12.8	14.5	13.5	11.8	7.7	5.0	5.0
82.5°	19.9	18.8	24.2	9.1	6.7	6.7	8.7	7.1	6.7	4.0	4.0
85°	12.1	15.8	11.8	4.0	3.4	2.7	3.0	3.0	4.0	2.7	2.7
87.5°	1.7	1.7	1.7	1.7	1.7	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)