

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: P233767

Luminaire Tested: **VERD-C016-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233767
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-C016-D-U-T4-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 950mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4374 lumens
Efficiency: N/A
Efficacy: 112.2 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

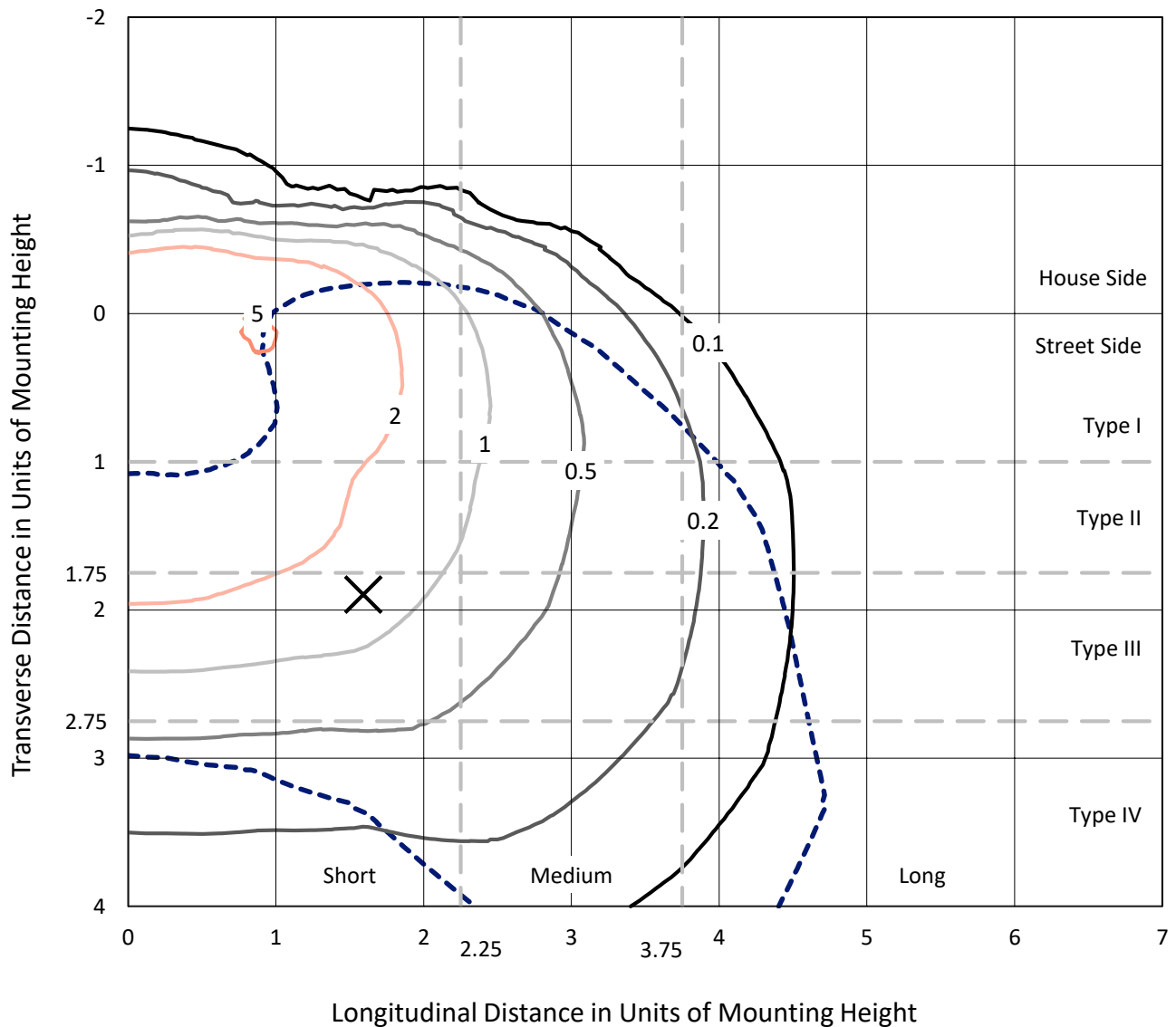
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

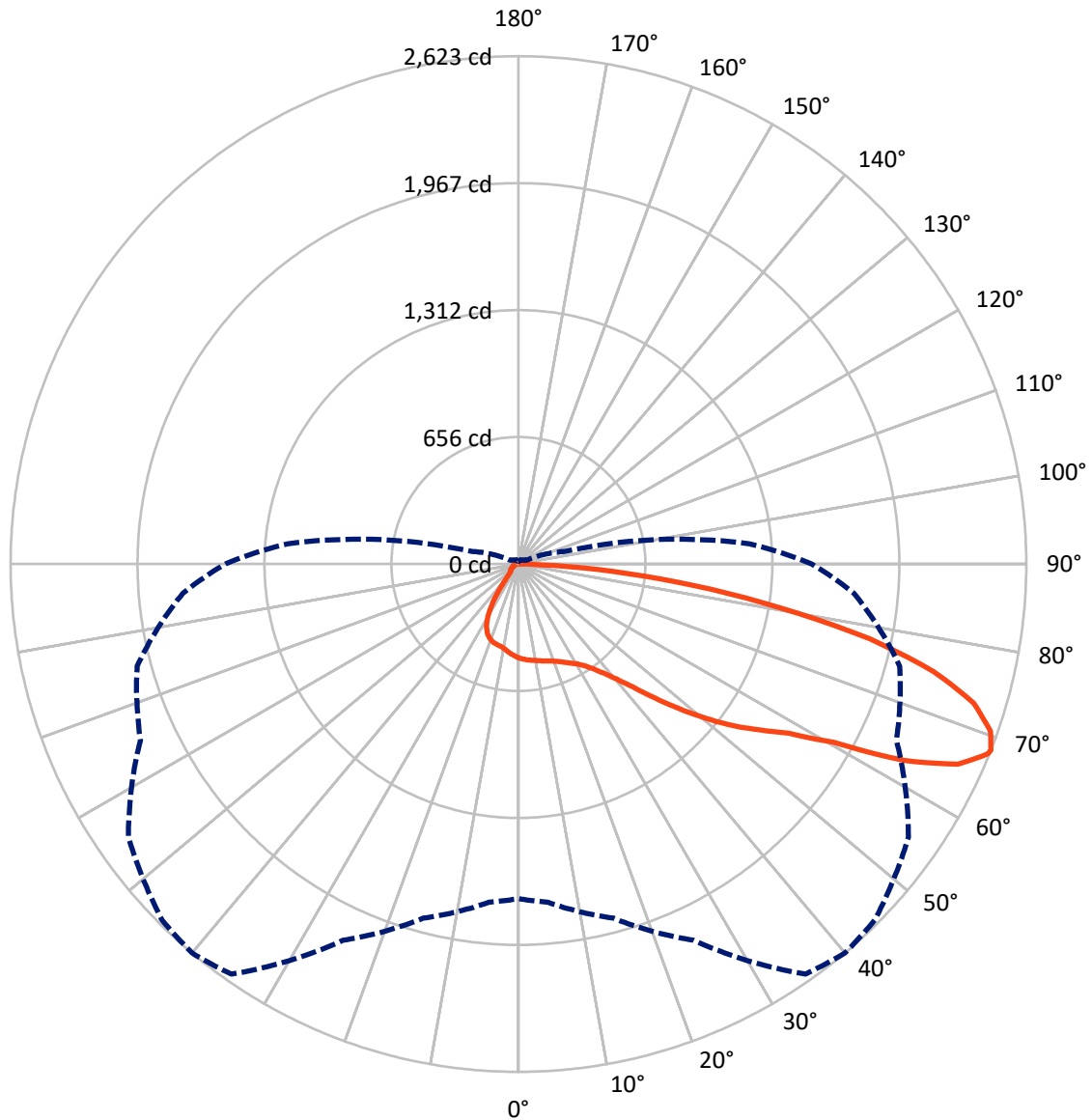
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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	709.5	0.0	709.5
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	3664.4	0.0	3664.4
	% Fixture	83.8	0.0	83.8
Total	Lumens	4374.0	0.0	4374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.1
10°-20°	138.1	3.2
20°-30°	231.8	5.3
30°-40°	343.3	7.8
40°-50°	580.7	13.3
50°-60°	886.3	20.3
60°-70°	1160.5	26.5
70°-80°	834.4	19.1
80°-90°	152.7	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°	4374.0	100.0
0°-180°	4374.0	100.0

Coefficient of Utilization



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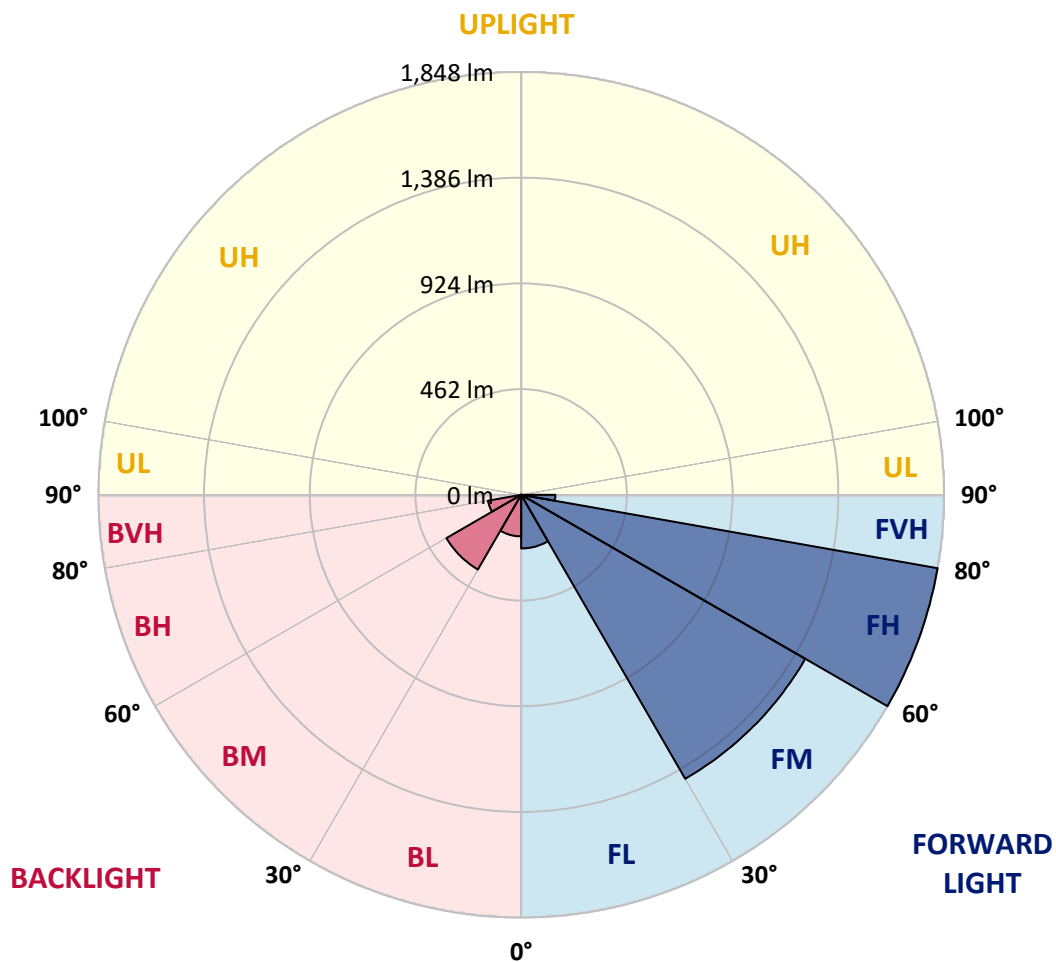
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.5	5.4			
FM	(30°-60°)	1433.2	32.8			
FH	(60°-80°)	1847.6	42.2			G2/5000
FVH	(80°-90°)	149.1	3.4			G2/225
BL	(0°-30°)	181.5	4.2	B1/500		
BM	(30°-60°)	377.1	8.6	B1/1000		
BH	(60°-80°)	147.2	3.4	B1/500		G1/500
BVH	(80°-90°)	3.6	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°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
2.5°	501.4	502.5	501.1	497.4	493.4	491.2	490.8	490.4	488.6	486.0	482.4
5°	506.5	506.9	505.4	502.5	498.9	498.1	497.0	497.4	496.3	493.7	489.7
7.5°	508.7	509.5	507.6	504.7	501.8	501.8	501.4	502.5	501.8	500.7	495.9
10°	508.0	509.1	508.0	506.9	505.8	506.9	506.2	508.7	509.1	509.1	503.6
12.5°	506.9	508.4	508.7	509.8	511.7	512.8	514.2	519.7	522.3	524.1	519.7
15°	508.0	508.7	511.7	513.5	517.2	519.7	523.0	532.2	536.6	541.7	539.5
17.5°	512.8	514.6	519.0	520.8	524.5	526.3	530.4	541.7	550.5	559.7	561.1
20°	523.0	524.1	531.5	532.2	534.0	535.8	540.2	552.7	565.9	579.1	582.7
22.5°	534.4	536.9	543.9	542.8	546.5	547.2	551.2	564.8	583.1	599.2	607.3
25°	546.1	548.3	555.3	556.0	560.4	563.3	568.1	581.3	604.7	625.2	639.5
27.5°	556.0	560.4	567.0	567.7	576.1	579.8	586.8	601.8	630.0	655.3	678.7
30°	574.3	575.4	581.6	583.8	595.2	598.5	606.5	625.6	660.0	691.5	728.1
32.5°	597.0	596.6	602.5	606.2	620.1	625.9	636.2	658.2	696.3	735.5	787.5
35°	638.8	635.1	638.8	642.4	658.5	664.8	675.8	708.7	753.4	820.1	884.2
37.5°	734.7	729.2	721.5	703.2	707.3	715.3	731.4	776.1	842.0	965.8	1027.7
40°	901.0	888.9	856.7	808.4	779.8	780.5	795.5	854.1	950.8	1132.9	1179.4
42.5°	1051.6	1043.1	1004.3	938.0	872.1	868.4	873.5	942.0	1069.5	1287.8	1312.0
45°	1193.3	1197.3	1140.9	1088.9	1010.2	986.0	979.8	1035.8	1201.0	1425.9	1428.1
47.5°	1324.4	1331.0	1262.9	1213.8	1136.2	1115.3	1095.9	1134.3	1325.2	1543.4	1525.5
50°	1465.4	1470.6	1376.1	1335.8	1270.6	1251.2	1236.5	1253.4	1452.2	1652.6	1612.3
52.5°	1660.3	1631.7	1513.0	1446.4	1388.5	1387.1	1375.7	1386.3	1596.9	1750.8	1678.2
55°	1890.3	1815.6	1689.6	1583.0	1508.7	1512.7	1499.1	1516.7	1740.1	1835.0	1739.4
57.5°	1971.6	1969.8	1911.2	1809.0	1658.1	1648.9	1625.5	1645.3	1863.9	1913.7	1782.6
60°	2084.4	2094.3	2100.9	2039.4	1952.2	1869.1	1790.7	1788.8	1979.3	1985.5	1803.9
62.5°	2157.3	2166.5	2217.7	2209.7	2263.5	2236.1	2146.7	1948.5	2067.6	2032.0	1811.9
65°	2021.1	2043.8	2173.1	2271.6	2455.1	2493.5	2480.7	2193.9	2127.6	2045.6	1796.9
67.5°	1774.6	1804.2	1946.0	2176.4	2573.8	2616.6	2593.2	2441.2	2153.6	2039.7	1755.5
68°	1728.4	1754.1	1893.2	2144.5	2585.8	2623.2	2602.0	2459.5	2154.7	2039.0	1739.8
70°	1506.5	1527.3	1663.2	1981.1	2552.1	2586.9	2584.0	2476.7	2145.2	2016.3	1633.9
72.5°	1168.8	1189.6	1310.1	1643.1	2396.5	2460.2	2457.6	2407.8	2127.6	1900.6	1369.8
75°	845.0	868.1	977.9	1262.5	2073.8	2214.1	2242.3	2289.9	1944.9	1599.5	974.6
77.5°	610.2	627.0	721.9	953.8	1694.0	1854.4	1911.5	1959.5	1591.8	1165.8	463.7
80°	406.9	419.0	510.6	709.1	1276.1	1370.6	1432.1	1351.9	905.8	421.6	50.2
82.5°	250.5	258.2	330.4	497.4	882.7	912.4	912.7	721.2	291.9	40.3	27.1
85°	134.4	137.0	179.5	271.4	466.3	488.6	479.8	302.9	59.0	21.6	14.7
87.5°	21.6	23.4	56.4	101.8	143.9	111.0	71.1	22.3	5.9	3.3	2.2
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°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
2.5°	484.2	483.1	480.2	478.7	475.0	476.1	476.1	473.2	474.7	480.5	479.8
5°	488.6	489.0	482.0	478.3	470.3	468.1	464.8	460.4	460.0	464.1	464.4
7.5°	492.3	494.1	484.2	476.9	465.9	458.2	451.6	443.9	442.1	444.6	444.6
10°	498.1	500.0	487.5	477.2	461.1	448.7	437.3	427.4	423.4	423.4	423.8
12.5°	513.5	512.4	498.1	482.4	463.3	443.5	425.6	412.4	402.9	402.5	401.1
15°	534.7	530.7	516.8	493.0	468.5	443.2	418.3	397.8	381.3	376.9	375.1
17.5°	557.5	552.3	535.5	506.5	476.5	442.8	409.9	381.3	353.8	343.2	339.9
20°	582.0	575.8	558.6	522.3	484.6	440.3	397.4	357.5	320.1	300.0	294.8
22.5°	609.1	604.0	583.1	538.4	490.1	434.8	378.0	327.4	279.8	250.9	248.7
25°	644.3	639.5	608.7	552.7	490.4	424.5	352.3	289.0	229.3	195.2	188.3
27.5°	686.4	678.0	629.2	561.5	484.6	406.6	319.0	237.7	170.3	141.7	141.0
30°	732.2	716.8	645.7	563.7	471.4	378.0	273.2	174.7	120.9	101.5	101.5
32.5°	786.0	757.8	662.6	560.0	449.8	338.4	209.1	121.2	83.1	74.0	74.0
35°	864.8	821.2	684.2	550.9	419.4	283.9	148.7	80.2	65.6	64.5	64.5
37.5°	989.3	916.8	713.5	535.5	377.6	216.5	96.7	61.9	62.6	62.6	62.3
40°	1121.9	1027.4	753.8	510.9	325.2	149.4	63.4	58.6	59.7	60.4	60.1
42.5°	1241.6	1132.5	797.7	478.0	263.3	94.1	57.9	56.4	55.7	56.4	56.8
45°	1345.3	1223.7	842.0	435.1	194.5	61.5	56.4	53.1	50.9	51.3	51.6
47.5°	1433.9	1295.5	872.1	390.1	128.9	54.6	54.6	48.7	46.5	46.5	46.5
50°	1511.6	1359.2	890.4	336.2	76.9	53.8	51.3	44.7	42.5	42.1	42.5
52.5°	1568.0	1403.9	888.2	270.7	51.6	52.0	46.9	41.0	38.5	39.2	39.6
55°	1612.7	1432.1	868.8	198.2	48.3	48.7	43.6	37.0	35.2	35.5	35.5
57.5°	1640.9	1439.1	829.2	128.9	47.2	43.6	39.2	33.0	30.8	30.8	30.8
60°	1650.0	1435.4	775.4	82.4	46.9	39.2	35.5	29.7	27.5	27.5	27.5
62.5°	1642.3	1414.2	684.2	59.3	43.6	36.6	32.2	26.4	24.2	23.4	23.4
65°	1614.9	1357.4	527.4	49.1	39.2	33.7	29.3	23.8	20.9	19.8	19.4
67.5°	1534.7	1234.3	306.9	46.1	35.5	30.8	27.1	21.6	18.3	16.5	16.1
68°	1513.8	1197.7	252.4	45.8	35.5	30.4	26.7	20.9	17.6	15.7	15.4
70°	1364.3	966.2	72.5	43.6	34.8	29.3	24.5	19.0	15.7	13.6	13.2
72.5°	1027.4	566.2	45.4	38.8	34.4	26.0	23.8	19.0	13.9	11.7	11.0
75°	573.6	128.9	38.5	28.9	32.2	25.6	23.4	17.2	12.5	9.5	9.2
77.5°	117.9	37.4	33.0	20.1	24.5	22.3	19.8	14.7	11.4	7.3	7.0
80°	33.3	27.8	29.3	14.7	13.9	15.7	14.7	12.8	8.4	5.5	5.5
82.5°	21.6	20.5	26.4	9.9	7.3	7.3	9.5	7.7	7.3	4.4	4.4
85°	13.2	17.2	12.8	4.4	3.7	2.9	3.3	3.3	4.4	2.9	2.9
87.5°	1.8	1.8	1.8	1.8	1.8	1.5	1.1	1.1	1.1	1.5	1.5
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)