

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: P233717

Luminaire Tested: **VERD-C01-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01-D-U-T3-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1230mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5810 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 56
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

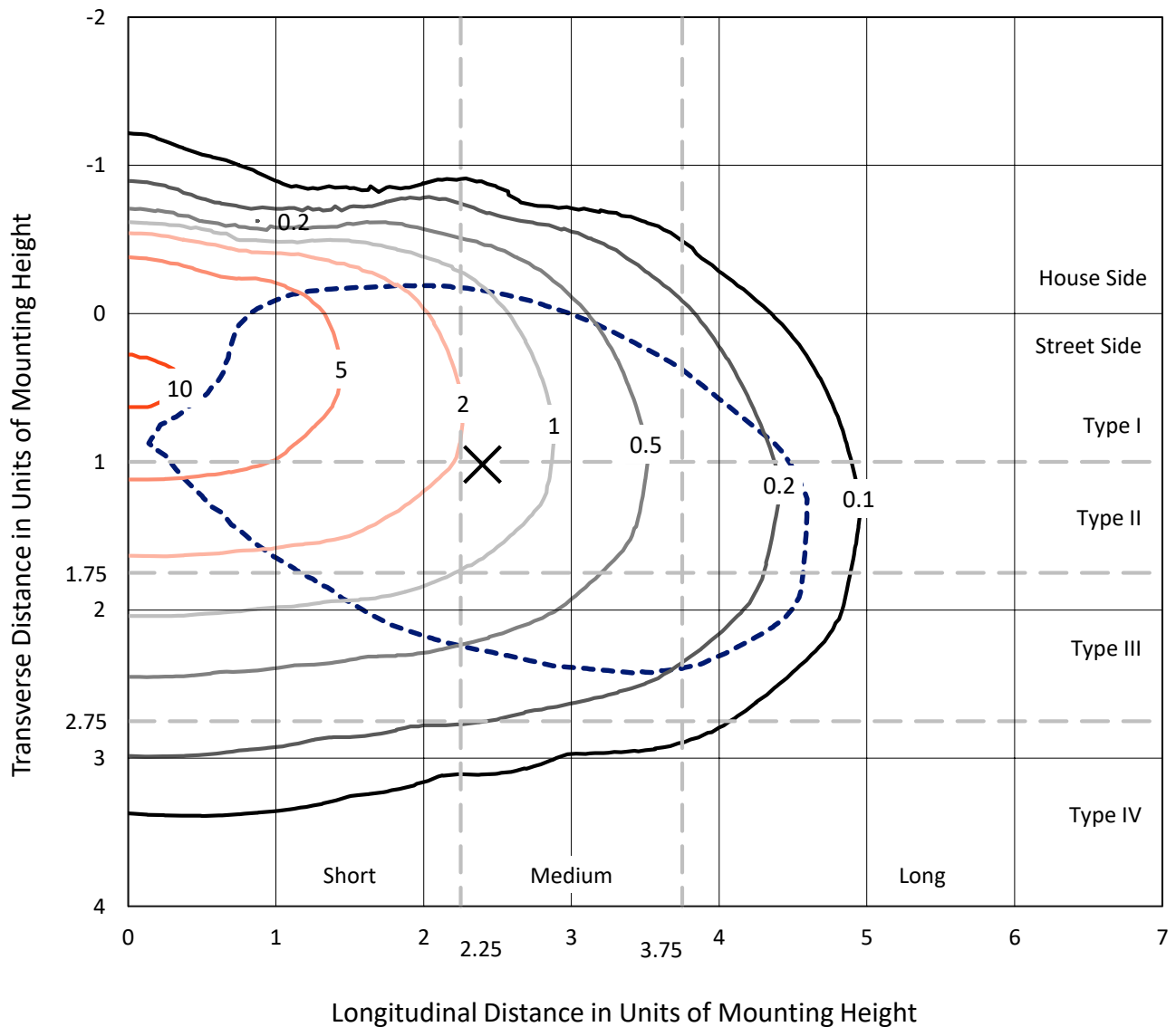


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

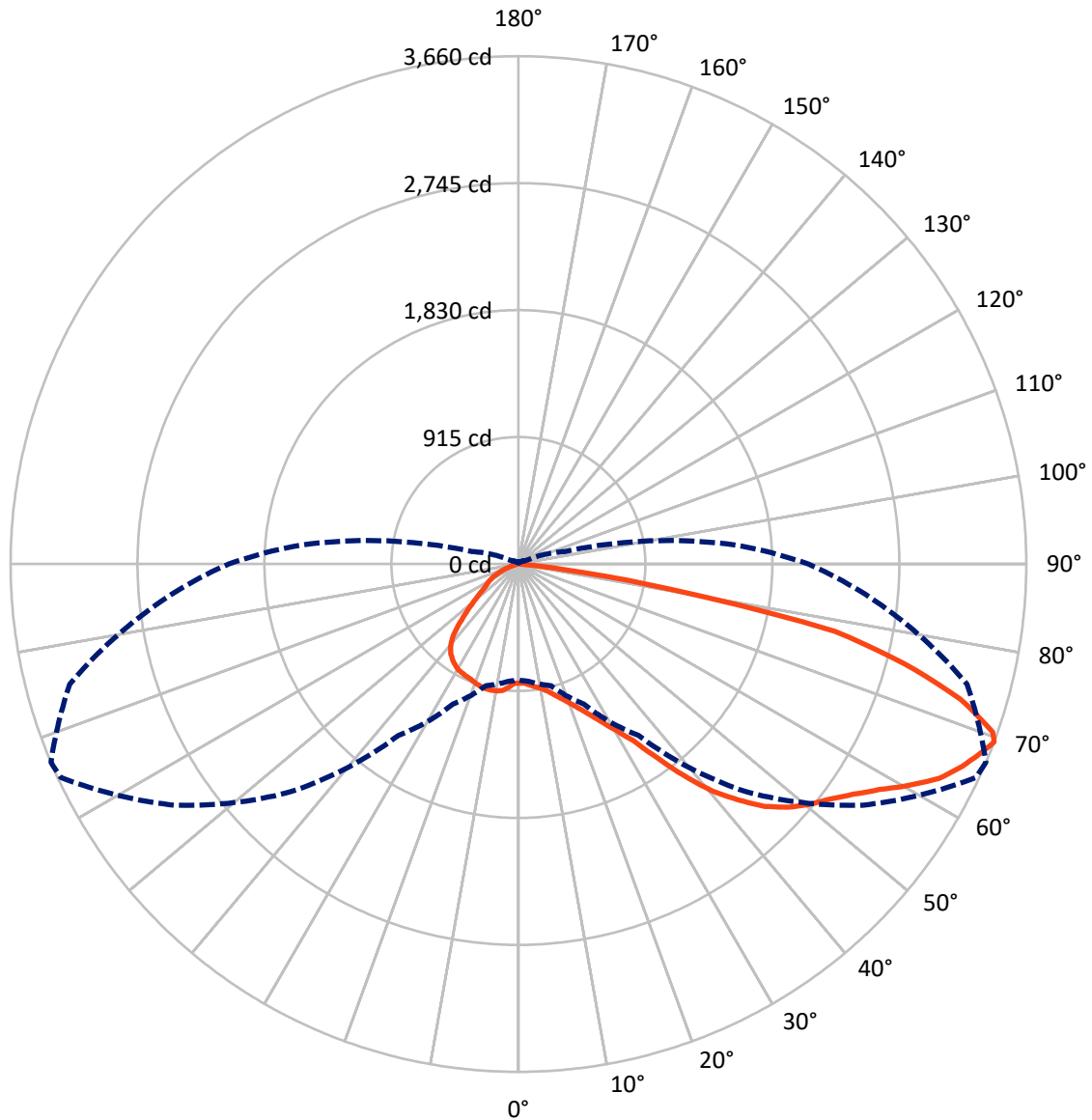


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1047.4	0.0	1047.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	4762.6	0.0	4762.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	5810.0	0.0	5810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.5
10°-20°	272.8	4.7
20°-30°	465.6	8.0
30°-40°	703.9	12.1
40°-50°	994.4	17.1
50°-60°	1201.8	20.7
60°-70°	1268.1	21.8
70°-80°	763.4	13.1
80°-90°	53.4	0.9
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°	5810.0	100.0
0°-180°	5810.0	100.0

Coefficient of Utilization



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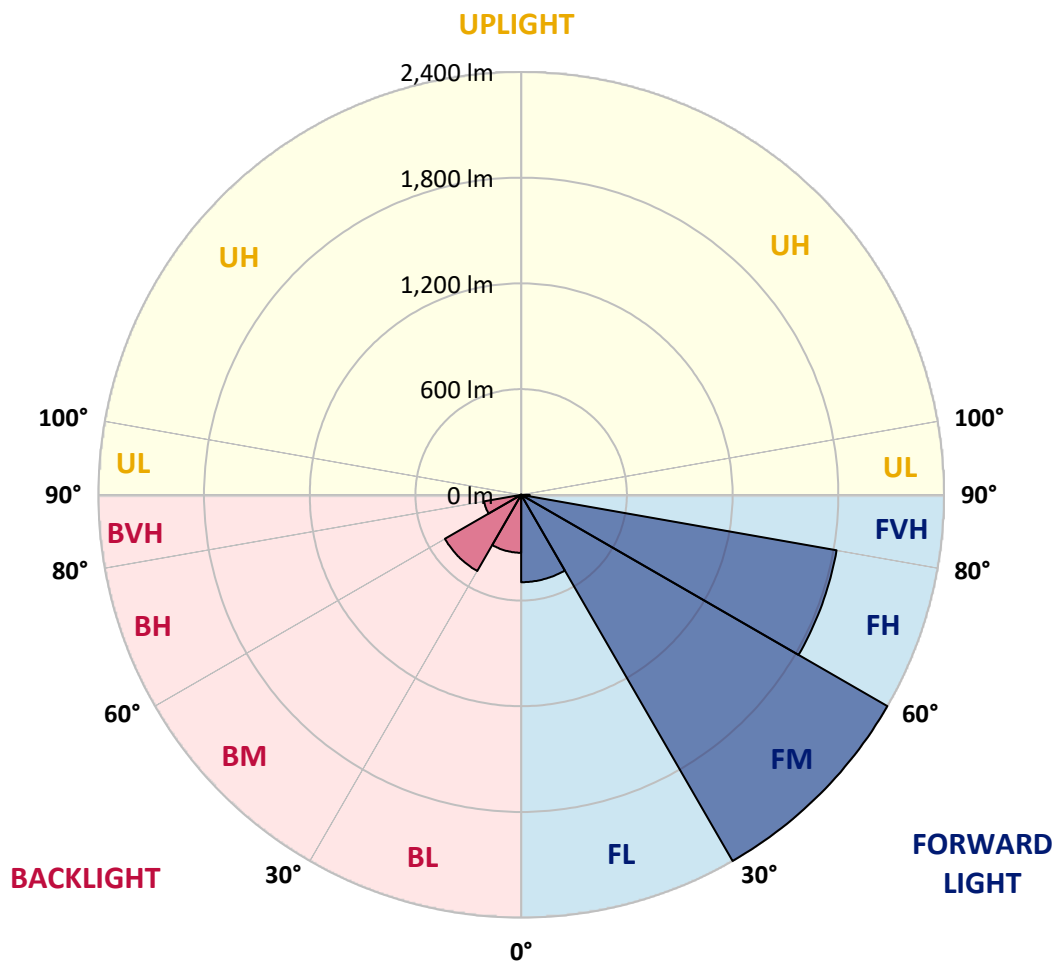
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	496.1	8.5			
FM	(30°-60°)	2400.4	41.3			
FH	(60°-80°)	1818.0	31.3			G2/5000
FVH	(80°-90°)	48.2	0.8			G1/100
BL	(0°-30°)	328.9	5.7	B1/500		
BM	(30°-60°)	499.7	8.6	B1/1000		
BH	(60°-80°)	213.5	3.7	B1/500		G1/500
BVH	(80°-90°)	5.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2
2.5°	881.4	880.0	880.0	872.2	864.8	862.9	862.5	860.1	860.6	857.4	854.1
5°	906.9	906.9	906.0	895.8	887.9	882.8	879.6	875.4	875.9	873.6	870.8
7.5°	945.3	945.8	943.9	930.5	922.6	910.1	902.7	894.9	894.4	891.6	892.5
10°	992.5	993.9	991.1	974.0	960.6	943.5	927.7	913.8	912.9	909.7	912.4
12.5°	1045.8	1047.6	1040.7	1023.1	1007.8	981.0	962.0	943.5	940.7	940.2	942.1
15°	1106.9	1107.8	1105.5	1079.6	1061.1	1036.5	1005.5	981.9	979.1	979.6	977.3
17.5°	1174.9	1177.2	1172.2	1149.0	1124.5	1090.7	1053.6	1024.5	1023.1	1021.7	1011.5
20°	1247.2	1249.5	1246.2	1224.5	1195.3	1152.7	1107.3	1074.0	1073.6	1070.3	1046.7
22.5°	1328.6	1331.9	1330.0	1303.6	1272.6	1226.3	1169.8	1135.1	1134.2	1124.0	1088.4
25°	1417.1	1416.1	1418.0	1389.7	1360.6	1312.0	1242.1	1206.0	1206.0	1193.5	1140.7
27.5°	1502.7	1502.2	1505.5	1485.6	1455.0	1409.2	1324.9	1288.4	1291.6	1273.5	1203.6
30°	1586.0	1586.0	1593.9	1580.9	1558.2	1510.1	1427.7	1389.3	1393.4	1374.5	1283.3
32.5°	1663.8	1667.5	1680.9	1673.1	1655.9	1612.4	1542.0	1506.9	1516.6	1524.5	1431.4
35°	1721.2	1724.9	1755.9	1758.7	1754.5	1725.4	1673.1	1695.7	1707.3	1769.3	1665.6
37.5°	1771.7	1776.3	1813.3	1836.5	1849.9	1831.8	1835.1	1911.0	1932.8	2005.9	1865.6
40°	1808.7	1818.9	1855.5	1887.4	1934.6	1955.9	2008.7	2116.5	2151.7	2180.9	2003.1
42.5°	1783.2	1790.2	1854.5	1940.2	2009.1	2084.1	2169.8	2298.0	2324.4	2315.1	2124.4
45°	1745.7	1754.1	1821.7	1954.1	2068.4	2217.9	2322.6	2461.4	2491.5	2440.1	2229.0
47.5°	1703.6	1715.2	1788.3	1935.5	2117.9	2341.1	2461.0	2601.7	2619.3	2551.7	2317.0
50°	1661.0	1674.0	1756.8	1920.3	2156.4	2443.8	2561.9	2716.1	2721.1	2644.3	2396.2
52.5°	1603.6	1617.0	1707.8	1888.3	2183.2	2511.4	2650.3	2810.0	2813.3	2744.3	2471.2
55°	1530.9	1548.1	1643.9	1841.1	2189.7	2550.8	2706.3	2907.7	2929.5	2852.6	2532.7
57.5°	1445.3	1461.0	1566.6	1773.0	2157.3	2564.2	2784.6	3036.9	3067.0	2962.3	2583.7
60°	1346.7	1364.7	1470.8	1685.1	2092.0	2601.7	2914.2	3219.3	3237.3	3077.1	2628.6
62.5°	1245.8	1258.7	1355.0	1561.5	1990.2	2624.4	3029.0	3390.6	3402.6	3187.8	2655.4
65°	1102.3	1118.5	1212.4	1419.8	1843.4	2580.9	3073.0	3507.7	3515.1	3280.4	2642.4
67.5°	946.2	959.2	1027.7	1249.0	1650.8	2442.9	3054.9	3585.9	3609.5	3352.6	2583.7
69°	835.6	848.6	907.8	1112.4	1507.8	2320.7	3029.5	3639.1	3660.0	3347.5	2508.7
70°	749.5	762.5	818.5	1010.6	1395.8	2217.5	2989.2	3612.3	3625.7	3290.6	2435.5
72.5°	536.1	549.0	594.9	710.6	1057.3	1822.6	2739.7	3314.2	3332.2	3017.0	2176.7
75°	280.5	311.6	394.0	459.2	626.4	1283.3	2277.7	2850.3	2876.7	2647.5	1790.2
77.5°	36.1	38.0	111.1	186.6	258.8	541.2	1618.0	2288.8	2330.4	2118.9	1237.9
80°	29.2	29.6	38.4	93.1	128.7	219.4	574.0	1071.2	1121.7	941.6	455.1
82.5°	20.4	21.3	30.1	49.1	42.1	80.1	199.5	302.8	312.0	269.9	181.5
85°	11.6	11.6	14.4	19.0	13.4	30.1	41.2	44.0	39.3	38.9	29.2
87.5°	3.2	3.7	4.2	3.2	1.4	1.4	1.9	1.9	1.9	1.4	1.4
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°	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2
2.5°	859.2	858.3	858.7	860.6	863.4	873.6	880.5	881.4	884.7	896.7	895.3
5°	874.0	879.6	882.8	892.5	899.0	912.9	921.2	922.2	926.8	939.3	939.8
7.5°	894.9	904.1	908.7	919.9	922.2	928.7	931.0	928.7	929.1	940.2	941.2
10°	912.9	924.5	924.5	927.3	923.1	923.6	916.2	909.2	905.5	915.2	917.5
12.5°	940.7	943.9	936.5	928.2	915.7	904.6	892.1	881.0	872.2	877.7	874.5
15°	969.4	964.3	946.2	924.5	902.3	883.3	857.4	841.2	825.9	829.1	826.3
17.5°	998.1	981.4	953.2	917.1	884.7	848.6	812.5	787.0	759.2	756.9	752.7
20°	1025.9	1001.8	955.0	901.8	856.4	805.5	749.5	706.0	664.8	654.1	647.2
22.5°	1059.2	1024.5	957.4	887.0	825.9	756.4	671.7	604.1	559.7	544.9	537.9
25°	1101.8	1056.0	963.8	875.9	794.9	695.8	579.6	502.3	454.1	428.7	426.4
27.5°	1152.3	1093.9	974.9	861.5	750.9	614.8	484.2	403.7	352.3	326.4	318.0
30°	1218.5	1141.1	985.1	850.4	688.9	526.4	384.2	294.4	233.3	216.7	207.9
32.5°	1343.9	1218.0	998.1	824.5	615.7	429.6	272.2	181.5	139.8	128.7	128.7
35°	1548.1	1387.0	1030.5	788.8	527.7	312.9	163.4	101.8	83.3	76.8	73.6
37.5°	1732.3	1557.3	1111.5	733.8	420.8	185.2	93.5	63.0	56.9	57.9	57.9
40°	1862.4	1674.0	1200.9	659.2	285.6	99.1	59.3	50.5	51.4	51.8	51.8
42.5°	1974.0	1773.5	1249.9	570.8	155.5	64.3	50.9	45.8	47.2	46.8	46.3
45°	2067.5	1854.5	1266.1	449.0	75.5	56.9	46.3	42.1	42.1	41.7	41.7
47.5°	2147.6	1926.3	1236.0	333.8	61.1	52.3	44.0	38.9	38.4	40.7	40.7
50°	2220.7	1981.8	1161.0	252.8	59.3	48.1	41.7	36.1	36.6	39.8	39.8
52.5°	2281.8	2014.7	1049.9	189.3	55.1	44.4	38.4	33.8	33.8	37.0	37.0
55°	2327.2	2014.7	965.2	141.7	52.8	40.7	35.6	32.4	30.6	31.5	31.9
57.5°	2349.9	1976.7	897.2	114.8	50.0	37.0	32.9	28.2	25.0	25.9	25.5
60°	2343.9	1955.0	818.9	102.3	46.8	34.3	29.2	24.1	20.8	19.9	19.9
62.5°	2332.7	1930.4	721.3	88.9	43.5	31.9	24.1	19.4	17.6	16.7	17.1
65°	2290.6	1850.8	597.7	74.1	40.3	31.0	20.4	17.1	15.3	14.4	14.4
67.5°	2188.8	1707.3	451.8	62.5	37.5	25.0	17.6	14.8	13.0	12.0	12.0
69°	2087.8	1570.3	346.7	56.9	35.6	22.7	16.2	13.4	12.0	10.6	10.6
70°	2000.8	1464.3	271.7	53.2	34.3	21.8	15.7	13.0	11.6	10.2	10.2
72.5°	1703.6	1161.5	138.0	46.3	28.7	19.0	13.9	11.6	9.7	8.3	8.3
75°	1321.7	800.4	91.2	36.6	22.2	17.1	12.5	10.2	8.3	6.9	6.5
77.5°	795.3	312.9	65.3	23.6	14.4	13.4	10.2	8.3	6.9	5.6	5.6
80°	219.4	134.3	44.0	15.7	8.3	8.8	7.4	6.0	5.1	4.2	4.2
82.5°	131.9	87.0	29.2	10.2	5.6	5.6	4.2	4.2	3.2	3.2	3.2
85°	22.7	17.6	6.9	4.2	3.2	3.2	2.3	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.9	1.9	1.4	0.9	0.5	0.0	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)