

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: P233509

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
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
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1230mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6292 lumens
Efficiency: N/A
Efficacy: 112.4 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

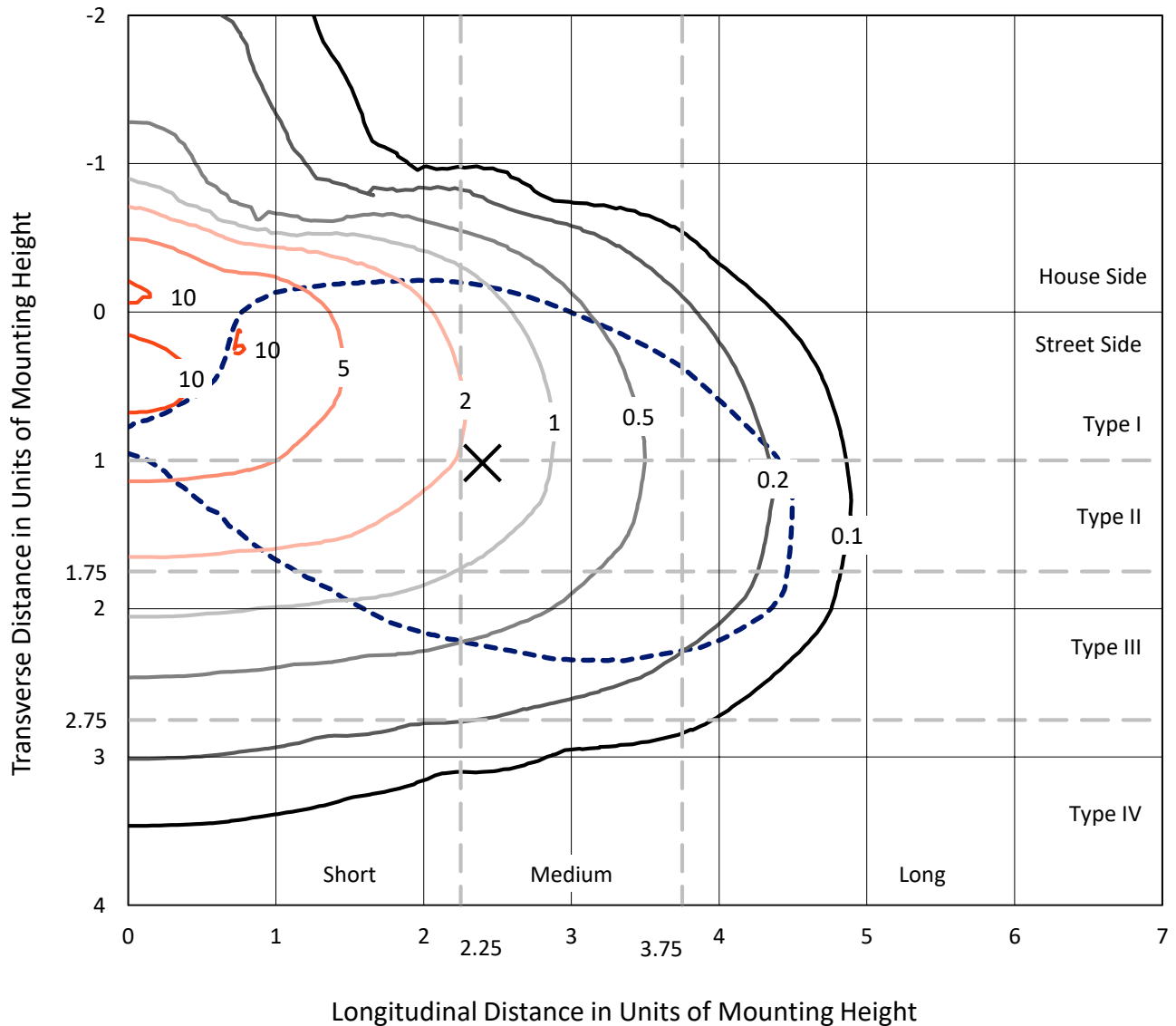


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

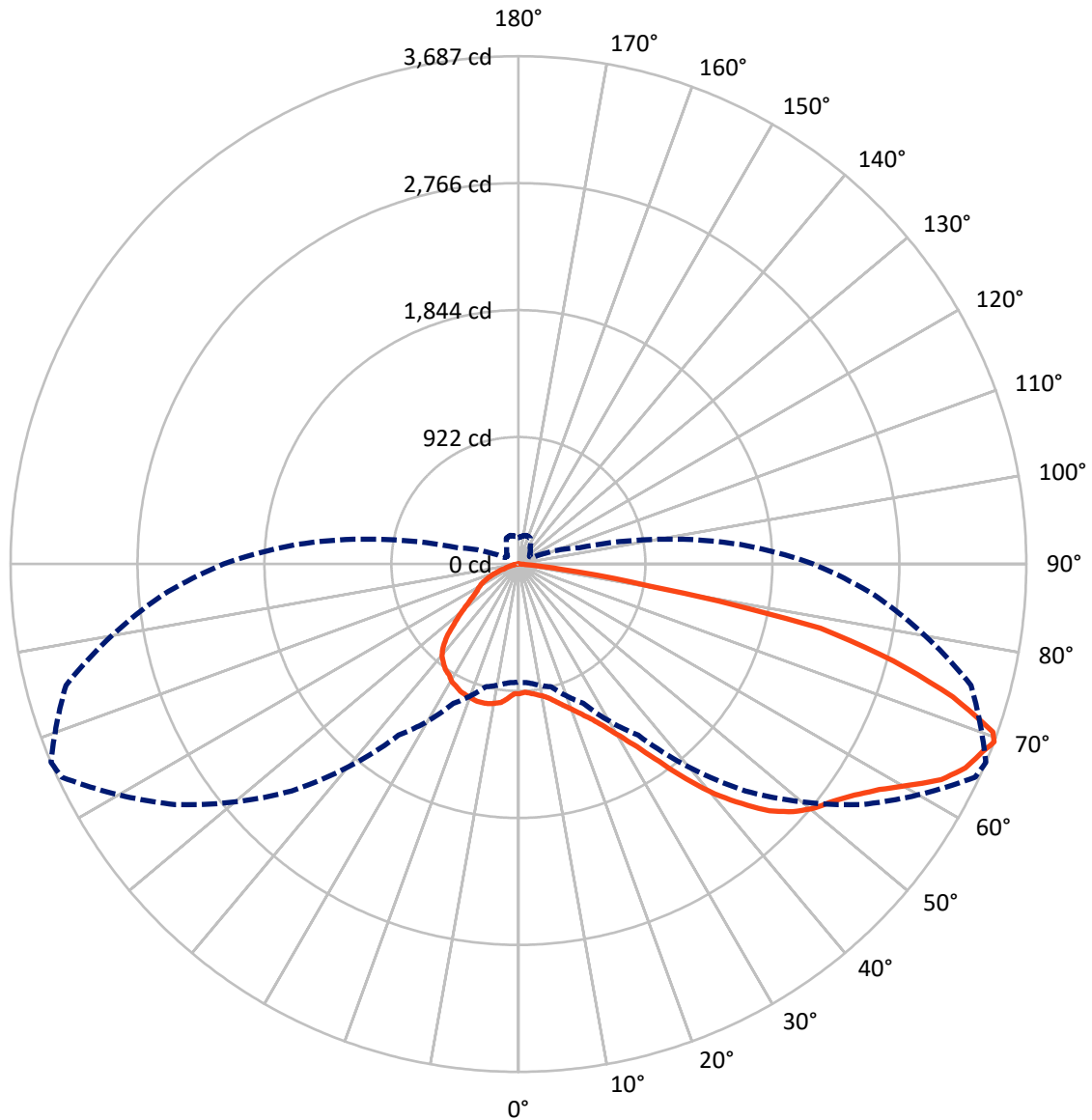


Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - Semi-Cutoff

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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	1416.9	0.0	1416.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	4875.1	0.0	4875.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	6292.0	0.0	6292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.5
10°-20°	303.8	4.8
20°-30°	523.4	8.3
30°-40°	778.4	12.4
40°-50°	1072.1	17.0
50°-60°	1281.6	20.4
60°-70°	1352.4	21.5
70°-80°	810.5	12.9
80°-90°	74.5	1.2
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°	6292.0	100.0
0°-180°	6292.0	100.0

Coefficient of Utilization



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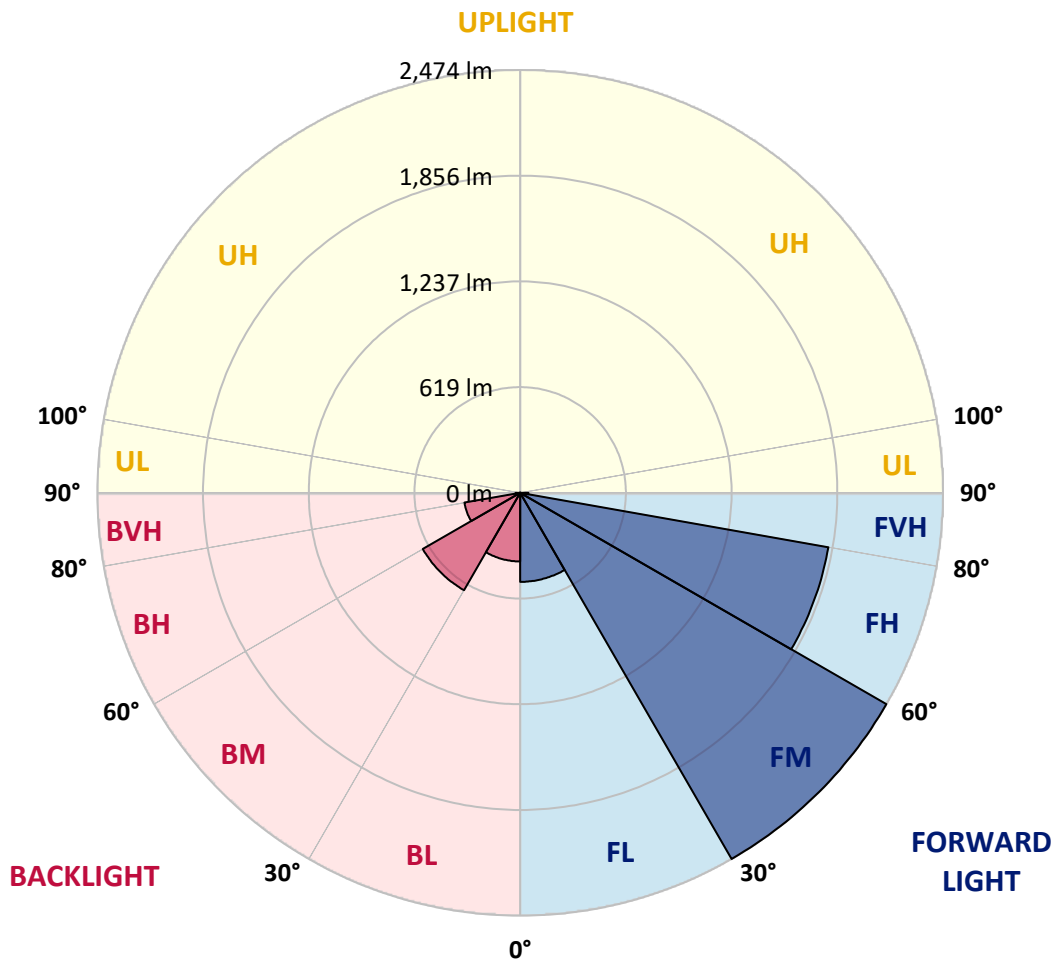
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.0	8.3			
FM (30°-60°)	2474.3	39.3			
FH (60°-80°)	1831.6	29.1			G2/5000
FVH (80°-90°)	48.2	0.8			G1/100
BL (0°-30°)	401.5	6.4	B1/500		
BM (30°-60°)	657.8	10.5	B1/1000		
BH (60°-80°)	331.3	5.3	B1/500		G1/500
BVH (80°-90°)	26.3	0.4			G1/100
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°	941.2	941.2	941.2	941.2	941.2	941.2	941.2	941.2	941.2	941.2	941.2
2.5°	956.6	956.0	953.2	942.9	941.7	940.6	933.7	934.3	932.6	934.3	934.9
5°	982.9	980.6	977.8	966.9	962.9	957.7	947.4	946.9	942.9	944.0	945.2
7.5°	1015.5	1013.2	1011.0	998.4	994.4	985.2	969.2	961.2	957.7	958.9	960.6
10°	1059.6	1055.6	1052.1	1033.8	1027.5	1012.1	992.6	978.9	974.3	976.1	980.6
12.5°	1109.9	1104.8	1099.1	1080.2	1071.6	1047.6	1024.7	1006.9	1000.1	1004.1	1007.5
15°	1162.0	1159.1	1156.8	1134.5	1122.5	1096.2	1067.6	1045.3	1039.0	1042.4	1044.1
17.5°	1230.7	1228.9	1224.9	1202.0	1179.2	1148.8	1111.6	1088.2	1081.9	1083.6	1079.6
20°	1305.6	1301.0	1298.7	1273.0	1249.0	1207.2	1164.3	1131.1	1129.4	1130.0	1117.4
22.5°	1389.7	1384.6	1380.0	1356.5	1326.8	1278.1	1222.1	1184.9	1186.0	1187.2	1159.1
25°	1475.5	1471.5	1467.5	1445.2	1415.4	1362.2	1294.7	1253.0	1252.4	1253.0	1214.1
27.5°	1565.3	1560.8	1560.2	1541.9	1512.1	1457.8	1380.0	1337.6	1337.6	1335.4	1276.4
30°	1645.4	1650.0	1650.0	1639.7	1611.7	1557.3	1484.1	1441.8	1447.5	1442.9	1368.0
32.5°	1733.0	1731.8	1739.8	1731.8	1709.0	1658.6	1597.4	1570.5	1580.2	1595.1	1520.1
35°	1783.9	1791.9	1811.9	1823.4	1812.5	1771.3	1726.7	1747.3	1760.4	1827.4	1737.6
37.5°	1842.8	1849.7	1877.2	1905.2	1909.8	1887.5	1887.5	1955.0	1980.7	2068.2	1963.5
40°	1883.5	1890.3	1920.1	1952.7	1997.3	2012.8	2052.8	2157.5	2194.1	2253.0	2131.8
42.5°	1859.4	1862.9	1926.9	2006.5	2072.3	2146.6	2210.1	2342.9	2377.8	2419.0	2270.2
45°	1817.1	1823.4	1894.3	2022.5	2135.8	2283.4	2363.5	2517.4	2557.4	2553.4	2376.6
47.5°	1770.2	1779.9	1858.8	2001.9	2190.1	2401.8	2503.6	2663.8	2686.7	2658.1	2450.4
50°	1718.1	1734.7	1818.8	1981.3	2229.6	2505.4	2607.8	2773.7	2785.7	2727.3	2515.1
52.5°	1658.6	1669.5	1762.7	1941.8	2257.1	2574.0	2690.7	2855.5	2860.6	2813.2	2583.2
55°	1576.2	1585.9	1689.5	1889.2	2261.1	2614.6	2743.9	2943.0	2960.2	2913.9	2645.0
57.5°	1487.5	1499.6	1606.0	1813.1	2224.4	2631.2	2808.0	3055.7	3088.9	3022.6	2694.7
60°	1384.6	1400.0	1507.6	1720.4	2152.4	2657.0	2927.6	3219.9	3261.1	3145.6	2742.2
62.5°	1277.6	1286.1	1385.1	1592.2	2040.2	2670.1	3036.3	3407.6	3447.1	3261.7	2764.5
65°	1127.1	1140.8	1228.9	1438.3	1882.3	2613.5	3087.2	3538.6	3567.2	3356.1	2742.8
67.5°	967.5	967.5	1042.4	1254.1	1671.8	2463.6	3066.6	3601.6	3635.9	3422.5	2674.1
69°	857.1	865.6	922.8	1115.7	1517.3	2330.3	3044.3	3659.3	3687.4	3401.3	2595.2
70°	772.4	779.8	837.6	1015.0	1402.3	2225.0	2996.2	3633.6	3654.2	3336.1	2512.2
72.5°	568.1	574.4	614.5	707.2	1054.4	1795.3	2701.6	3285.2	3297.8	3000.2	2216.4
75°	387.3	390.8	421.1	477.7	615.0	1255.3	2207.3	2774.8	2812.0	2602.0	1814.8
77.5°	133.9	144.2	162.5	219.7	263.2	493.2	1496.1	2186.7	2242.2	2015.0	1269.6
80°	45.8	45.2	87.0	112.7	138.5	226.6	473.2	916.6	968.6	830.7	457.1
82.5°	34.3	35.5	57.8	62.4	42.3	83.5	184.2	280.3	307.2	268.3	189.4
85°	21.7	21.2	25.7	26.9	19.5	35.5	44.6	45.2	46.9	40.6	41.2
87.5°	12.0	12.0	11.4	9.7	5.1	4.6	4.0	4.0	3.4	3.4	3.4
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°	941.2	941.2	941.2	941.2	941.2	941.2	941.2	941.2	941.2	941.2	941.2
2.5°	932.0	940.0	941.7	944.0	949.7	957.2	967.5	967.5	971.5	983.5	987.5
5°	945.2	954.9	967.5	980.6	996.1	1012.7	1029.3	1035.0	1043.0	1059.0	1062.4
7.5°	965.2	976.1	997.8	1015.5	1028.7	1045.3	1059.0	1061.3	1071.6	1086.5	1089.3
10°	985.8	995.5	1017.2	1026.4	1044.1	1062.4	1069.3	1072.7	1081.3	1092.8	1091.1
12.5°	1013.8	1016.7	1032.1	1038.4	1047.0	1058.4	1061.9	1061.9	1067.0	1085.3	1085.9
15°	1041.3	1041.3	1043.6	1040.1	1041.3	1047.0	1047.6	1040.1	1045.9	1055.0	1051.6
17.5°	1070.5	1062.4	1052.1	1037.3	1024.1	1023.5	1011.5	993.8	988.6	1001.8	1001.2
20°	1097.9	1084.2	1059.6	1025.8	1007.5	982.9	952.6	942.3	941.7	944.0	942.3
22.5°	1134.0	1105.9	1061.3	1015.0	964.6	925.7	900.5	865.6	864.5	859.3	851.3
25°	1176.9	1136.8	1068.7	1002.9	929.7	879.4	818.7	781.5	760.4	764.9	751.2
27.5°	1232.4	1183.7	1071.6	976.6	881.7	796.4	723.2	675.1	656.8	648.8	639.6
30°	1308.5	1233.5	1092.2	954.3	822.2	709.4	619.6	549.8	523.5	530.4	531.5
32.5°	1430.3	1327.9	1103.1	910.3	753.5	614.5	497.8	422.2	406.8	426.2	431.4
35°	1642.6	1474.4	1128.8	883.9	675.1	503.5	370.2	339.3	342.7	359.3	360.4
37.5°	1851.4	1659.7	1208.3	826.7	581.3	373.0	287.2	270.6	287.2	308.4	311.2
40°	1997.9	1804.5	1278.7	770.1	449.7	270.0	219.1	199.1	223.1	256.9	263.2
42.5°	2127.8	1919.5	1328.5	691.7	307.8	192.8	157.3	162.5	198.0	222.6	228.3
45°	2221.0	1998.4	1362.8	589.9	196.2	145.9	140.7	157.3	191.1	210.5	212.3
47.5°	2279.9	2044.8	1337.6	464.6	147.6	137.9	138.5	159.6	193.4	215.1	214.5
50°	2333.1	2069.4	1255.8	368.5	140.2	132.2	141.3	165.9	200.8	220.8	219.7
52.5°	2389.8	2093.4	1156.3	288.9	134.5	129.3	144.7	169.9	200.8	213.4	211.7
55°	2438.4	2114.6	1081.3	232.3	130.4	128.7	148.2	176.2	199.7	204.8	201.4
57.5°	2463.6	2078.5	1000.1	195.1	126.4	128.7	150.5	175.1	206.5	223.1	219.7
60°	2449.9	2044.8	934.3	181.4	120.7	128.2	151.6	187.7	253.5	268.9	267.8
62.5°	2424.7	2007.6	842.2	163.1	114.4	129.3	151.0	199.1	291.8	286.6	272.3
65°	2373.2	1933.2	716.3	141.9	108.1	131.6	151.0	224.3	254.6	248.9	242.6
67.5°	2263.3	1772.5	573.3	121.9	101.3	124.7	148.8	213.4	219.1	204.3	196.8
69°	2140.3	1619.1	453.7	111.0	97.3	121.3	148.2	206.0	215.7	199.7	191.1
70°	2044.2	1499.6	366.7	103.0	93.3	120.1	147.6	200.8	214.0	196.2	187.1
72.5°	1702.7	1211.8	192.2	83.0	79.5	109.3	142.5	196.2	214.5	188.2	175.1
75°	1337.6	862.2	127.6	63.5	61.2	95.5	130.4	188.8	202.0	169.4	149.3
77.5°	825.0	377.6	88.1	44.1	44.6	74.4	112.1	168.8	203.7	171.1	145.3
80°	239.7	145.9	56.1	29.8	27.5	44.1	88.1	145.3	193.4	175.6	158.5
82.5°	138.5	95.0	37.8	18.9	16.6	20.0	55.5	112.7	170.5	160.8	164.2
85°	31.5	26.3	13.7	9.2	9.2	11.4	18.9	65.2	117.9	137.9	155.6
87.5°	3.4	3.4	3.4	3.4	3.4	2.9	3.4	17.7	51.5	73.2	85.2
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)