

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: P233458

Luminaire Tested: **VERD-C01H-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01H-D-U-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7838 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 73
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

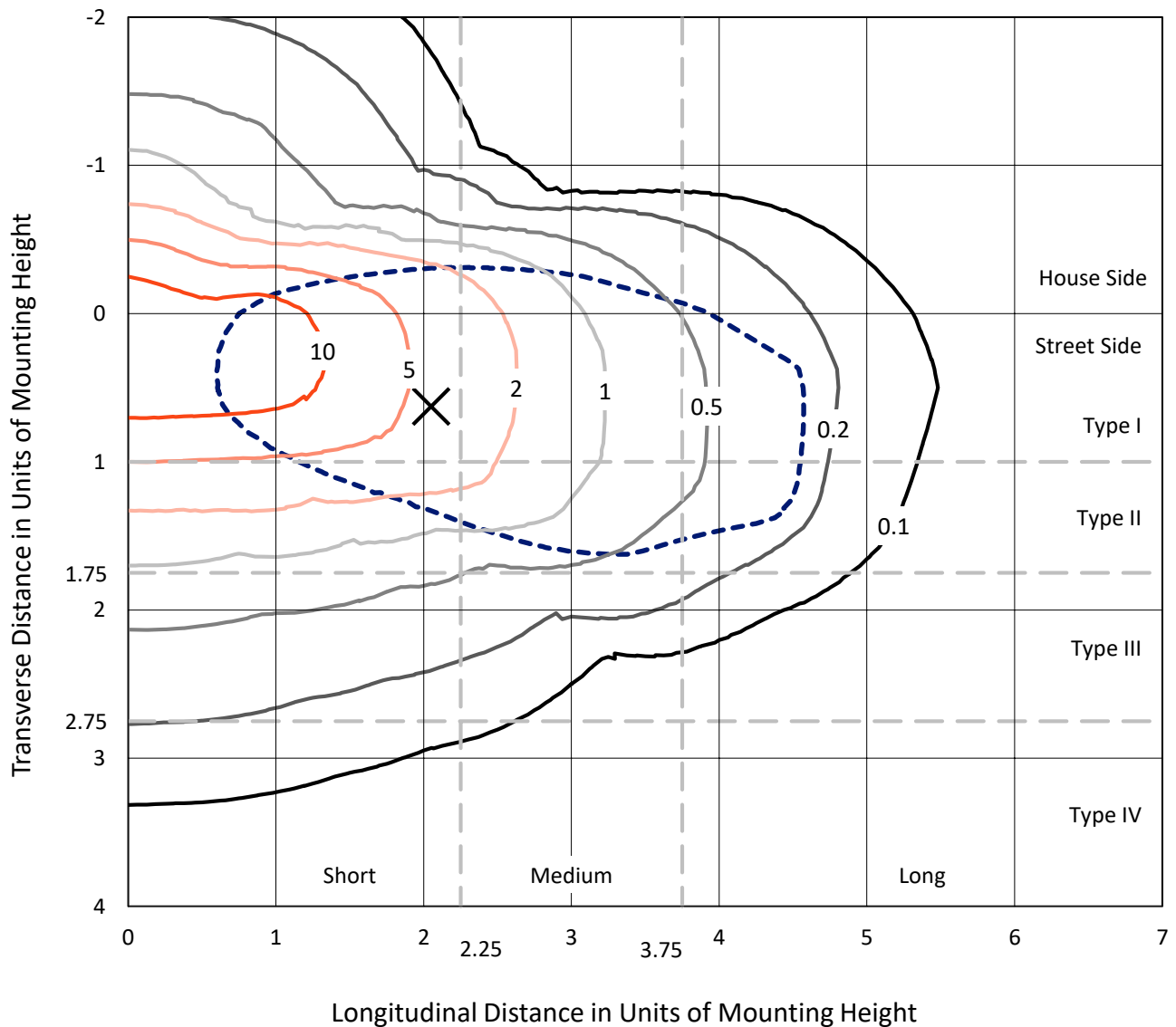


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

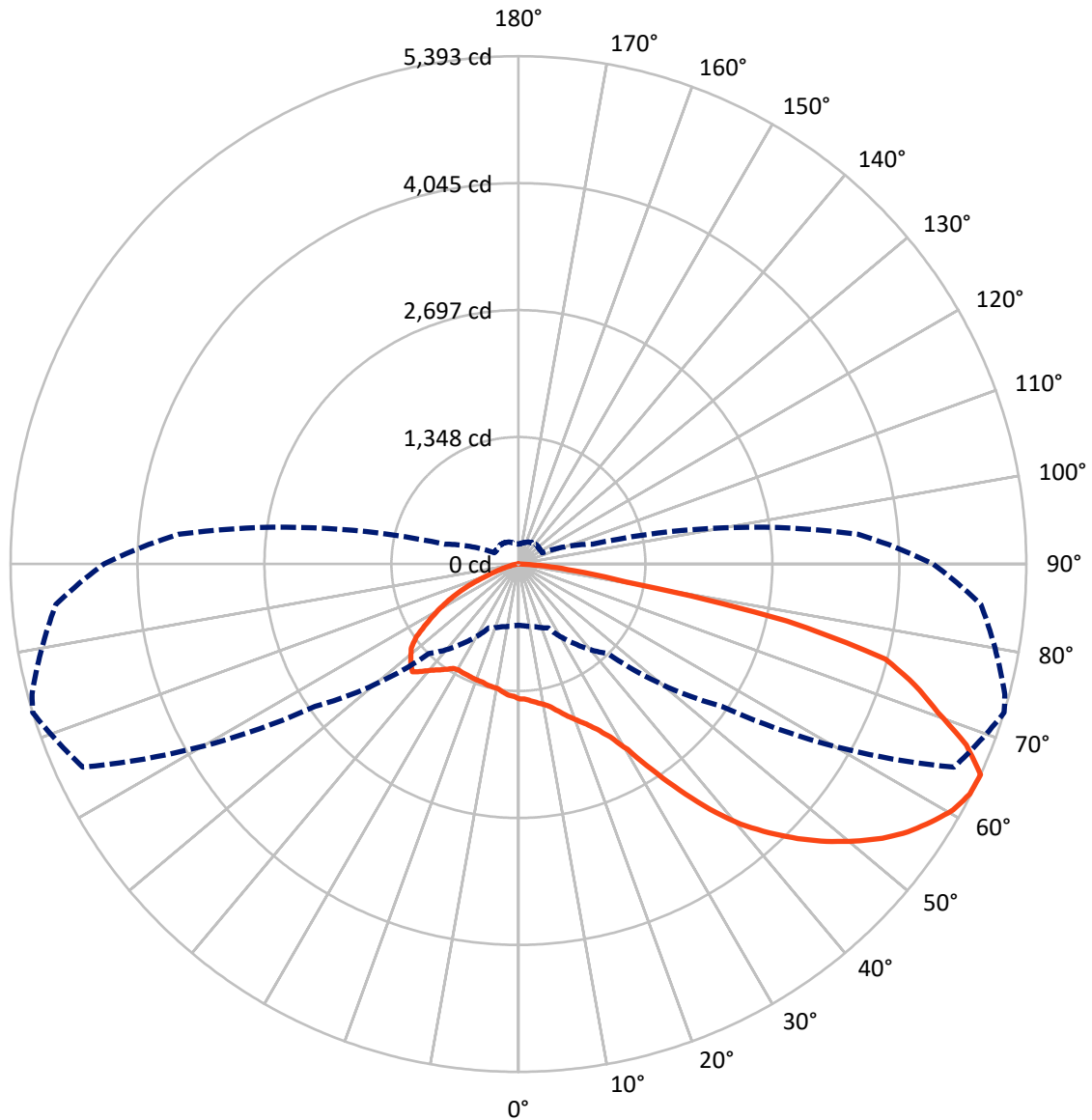


Based on 10 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2009.2	0.0	2009.2
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	5828.8	0.0	5828.8
	% Fixture	74.4	0.0	74.4
Total	Lumens	7838.0	0.0	7838.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	1.7
10°-20°	413.5	5.3
20°-30°	693.6	8.8
30°-40°	1017.2	13.0
40°-50°	1374.8	17.5
50°-60°	1592.6	20.3
60°-70°	1555.7	19.8
70°-80°	934.2	11.9
80°-90°	119.6	1.5
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°	7838.0	100.0
0°-180°	7838.0	100.0



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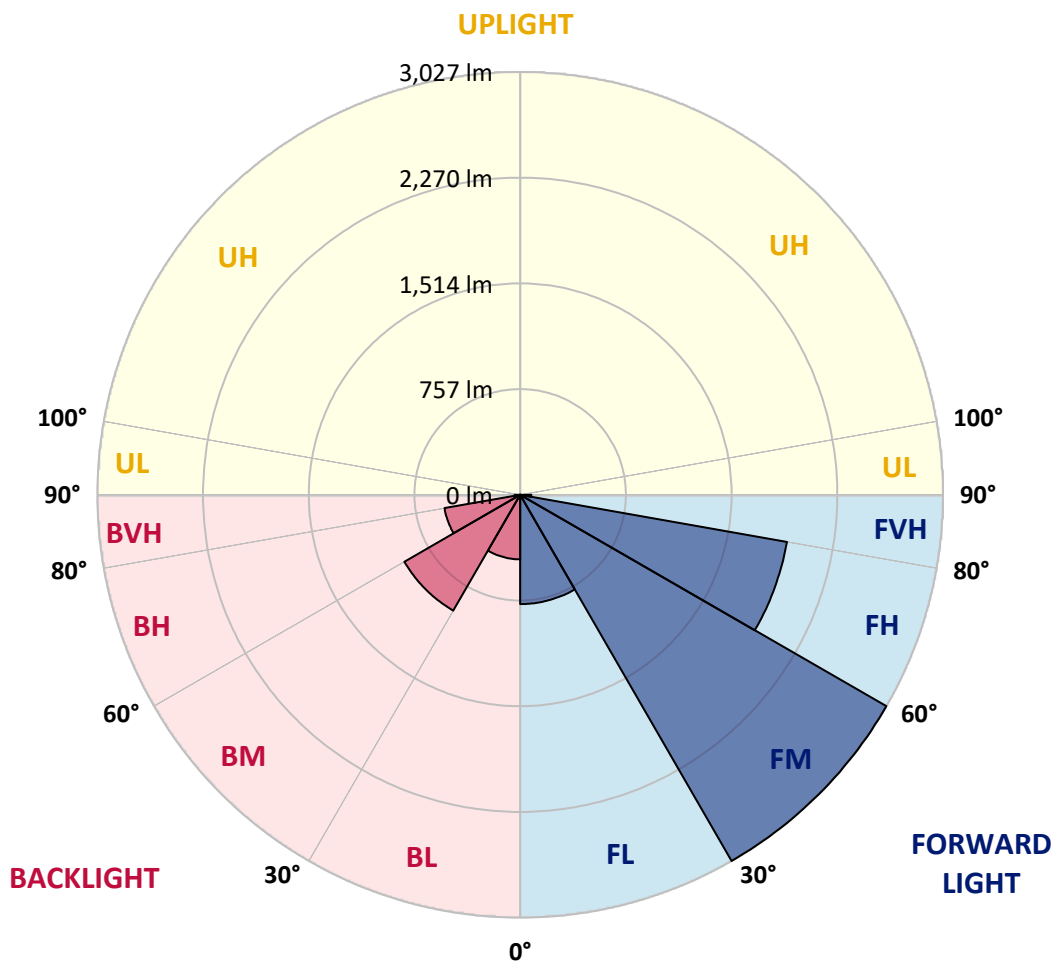
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.1	10.0			
FM (30°-60°)	3027.3	38.6			
FH (60°-80°)	1939.7	24.7			G2/5000
FVH (80°-90°)	79.7	1.0			G1/100
BL (0°-30°)	461.8	5.9	B1/500		
BM (30°-60°)	957.3	12.2	B1/1000		
BH (60°-80°)	550.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	40.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2
2.5°	1521.4	1527.1	1520.7	1502.2	1492.9	1486.5	1467.3	1450.3	1436.7	1435.3	1422.5
5°	1579.8	1588.3	1577.6	1554.1	1544.9	1531.4	1510.0	1486.5	1462.3	1457.4	1431.7
7.5°	1653.8	1655.2	1649.5	1626.0	1606.8	1578.3	1541.3	1516.4	1488.7	1480.9	1440.3
10°	1716.4	1715.7	1708.6	1685.8	1666.6	1641.7	1589.7	1549.2	1516.4	1506.5	1450.3
12.5°	1776.2	1774.7	1767.6	1744.1	1719.9	1699.3	1660.2	1605.4	1561.3	1548.5	1478.7
15°	1850.2	1846.6	1835.2	1803.9	1784.7	1760.5	1732.0	1677.3	1626.7	1608.9	1520.0
17.5°	1907.1	1906.4	1897.9	1871.5	1848.8	1822.4	1796.1	1753.4	1698.6	1678.7	1560.6
20°	1939.8	1937.0	1934.9	1914.2	1908.5	1894.3	1856.6	1823.8	1769.1	1748.4	1606.1
22.5°	1974.7	1975.4	1976.1	1965.5	1981.8	1969.7	1942.0	1902.1	1846.6	1823.1	1670.1
25°	1982.5	1984.0	1998.2	2021.7	2041.6	2063.7	2043.7	2004.6	1944.8	1919.9	1757.7
27.5°	1960.5	1966.2	2008.9	2048.7	2119.2	2147.6	2144.1	2141.9	2080.7	2055.8	1877.9
30°	1980.4	1980.4	2009.6	2077.9	2166.8	2241.6	2257.9	2303.5	2285.0	2267.2	2080.0
32.5°	1920.6	1931.3	1983.2	2078.6	2219.5	2328.4	2402.4	2529.0	2602.3	2587.4	2366.1
35°	1808.2	1822.4	1898.6	2044.4	2245.8	2430.8	2563.2	2807.3	2948.9	2966.7	2710.5
37.5°	1721.4	1733.5	1828.8	1991.1	2255.8	2526.9	2748.9	3120.4	3303.3	3294.0	3002.3
40°	1615.3	1636.7	1732.8	1927.7	2232.3	2608.7	2950.3	3407.9	3632.7	3590.0	3279.8
42.5°	1520.0	1538.5	1618.9	1826.7	2199.6	2655.0	3132.5	3703.9	3901.0	3866.9	3542.4
45°	1418.9	1435.3	1510.0	1705.7	2123.4	2677.8	3303.3	3987.1	4158.6	4120.2	3785.7
47.5°	1302.9	1325.0	1414.0	1591.9	2011.7	2663.5	3427.8	4233.3	4403.4	4374.9	3987.1
50°	1010.5	1033.3	1265.9	1485.1	1856.6	2604.5	3539.5	4479.6	4624.7	4597.7	4165.0
52.5°	917.3	927.2	999.8	1362.7	1695.0	2487.8	3609.3	4682.4	4840.3	4813.3	4333.0
55°	860.3	867.4	908.0	1113.0	1557.7	2299.9	3617.8	4893.0	5021.8	4986.2	4511.6
57.5°	802.0	809.8	854.6	960.0	1419.7	2006.0	3527.4	5071.6	5169.1	5130.7	4682.4
60°	752.9	757.1	801.3	873.9	1263.8	1714.3	3294.7	5193.3	5305.0	5255.2	4849.6
62.5°	708.0	713.7	745.8	811.9	1132.9	1495.8	2970.2	5194.0	5379.7	5349.1	4934.3
65°	649.7	658.2	689.5	749.3	1026.8	1346.4	2634.4	5103.6	5393.3	5347.7	4930.0
67.5°	582.1	592.8	621.2	668.9	885.9	1187.0	2166.1	4984.8	5129.3	5121.4	4726.5
70°	514.5	514.5	546.5	584.9	735.1	1016.2	1711.4	4561.4	4726.5	4738.6	4361.4
72.5°	434.1	435.5	460.4	493.9	592.1	834.0	1246.7	3899.6	4406.3	4259.7	3933.8
75°	364.3	362.9	388.5	416.3	481.8	656.8	813.4	2864.9	4027.0	4059.7	3462.0
77.5°	193.6	186.4	219.2	241.2	282.5	365.1	451.2	1436.7	2916.2	2980.2	2771.7
80°	54.8	55.5	145.2	162.2	185.7	180.7	209.2	547.9	1153.5	1300.1	1616.1
82.5°	32.7	37.7	82.5	96.8	72.6	47.0	79.7	304.6	597.0	668.9	802.0
85°	17.1	18.5	29.2	36.3	27.8	23.5	24.2	128.1	290.3	295.3	320.2
87.5°	7.8	7.8	10.7	11.4	7.1	4.3	2.8	2.1	2.1	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°	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2
2.5°	1412.5	1419.7	1407.6	1398.3	1391.2	1386.9	1381.9	1369.8	1373.4	1378.4	1377.7
5°	1419.7	1423.2	1401.9	1372.7	1345.6	1326.4	1313.6	1294.4	1294.4	1302.2	1302.2
7.5°	1426.1	1421.1	1377.7	1328.6	1298.0	1282.3	1261.7	1241.0	1237.5	1243.2	1243.9
10°	1429.6	1408.3	1347.8	1302.2	1262.4	1230.4	1204.0	1180.6	1179.8	1187.7	1189.1
12.5°	1445.3	1404.0	1345.6	1283.0	1223.2	1189.1	1157.8	1131.5	1122.2	1122.9	1124.3
15°	1469.5	1421.1	1342.8	1256.7	1191.9	1146.4	1100.9	1067.4	1058.9	1070.3	1074.5
17.5°	1498.6	1448.8	1329.3	1232.5	1153.5	1098.7	1053.2	1023.3	996.2	984.2	982.0
20°	1537.1	1472.3	1336.4	1196.9	1116.5	1043.2	986.3	950.0	927.2	925.8	924.4
22.5°	1587.6	1498.6	1337.8	1173.4	1058.2	982.0	911.6	890.9	850.4	835.4	841.8
25°	1654.5	1538.5	1334.3	1148.5	1013.3	910.9	826.2	788.5	773.5	756.4	757.9
27.5°	1740.6	1601.8	1343.5	1115.8	940.0	824.0	729.4	688.8	666.1	651.8	654.0
30°	1915.6	1697.9	1342.8	1084.5	872.4	734.4	627.6	600.6	577.8	565.0	571.4
32.5°	2164.7	1906.4	1372.7	1042.5	795.6	614.1	542.2	511.6	492.4	478.2	481.8
35°	2472.8	2133.4	1449.5	985.6	708.0	522.3	473.2	435.5	412.0	406.3	404.2
37.5°	2758.9	2334.1	1522.1	947.9	607.7	471.8	409.9	372.2	351.5	358.6	358.6
40°	3014.4	2600.2	1604.0	887.4	516.6	414.2	339.4	322.4	311.7	323.8	328.1
42.5°	3207.2	2855.7	1715.0	807.7	442.6	345.8	290.3	302.4	306.7	315.2	313.1
45°	3446.3	3001.6	1824.6	733.7	377.9	288.2	280.4	305.3	315.2	323.1	319.5
47.5°	3666.2	3114.7	1802.5	597.0	318.1	278.9	285.4	305.3	322.4	335.2	333.0
50°	3855.5	3256.3	1760.5	464.0	305.3	287.5	290.3	297.5	323.1	331.6	331.6
52.5°	3973.6	3396.5	1708.6	375.0	314.5	298.2	293.2	292.5	309.5	316.0	310.3
55°	4115.9	3541.7	1574.1	348.0	318.1	305.3	301.0	294.6	299.6	294.6	297.5
57.5°	4273.9	3684.7	1367.7	340.1	316.0	303.1	325.9	291.8	288.9	271.1	266.9
60°	4412.7	3740.9	1187.0	322.4	304.6	297.5	303.1	288.2	274.0	250.5	241.2
62.5°	4464.6	3735.9	1003.4	303.9	287.5	288.9	288.2	277.5	264.7	241.2	235.5
65°	4402.0	3622.1	813.4	281.8	274.0	279.7	272.5	256.9	235.5	216.3	211.3
67.5°	4189.9	3331.7	604.2	252.6	251.9	262.6	257.6	236.3	212.8	197.8	197.8
70°	3784.3	2974.5	391.4	209.9	225.6	244.1	244.1	221.3	190.7	177.9	181.5
72.5°	3340.3	2559.6	253.3	155.8	177.9	221.3	219.9	204.2	175.8	159.4	160.1
75°	2893.4	2030.9	163.7	107.5	115.3	188.6	195.0	166.5	136.6	116.7	113.1
77.5°	2199.6	1527.8	103.9	62.6	73.3	115.3	148.0	138.8	139.5	170.1	168.7
80°	1352.8	920.8	75.4	30.6	36.3	75.4	119.5	132.4	185.7	122.4	112.4
82.5°	677.4	430.5	39.8	18.5	20.6	33.4	71.2	158.7	135.2	81.1	76.9
85°	253.3	116.0	12.1	9.3	11.4	17.1	29.2	145.2	86.1	64.8	63.3
87.5°	1.4	2.1	2.1	2.8	4.3	5.0	10.7	69.0	43.4	31.3	29.9
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)