

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: P509311

Luminaire Tested: **VERD-CA2-70-730-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-730-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 980mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10338 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

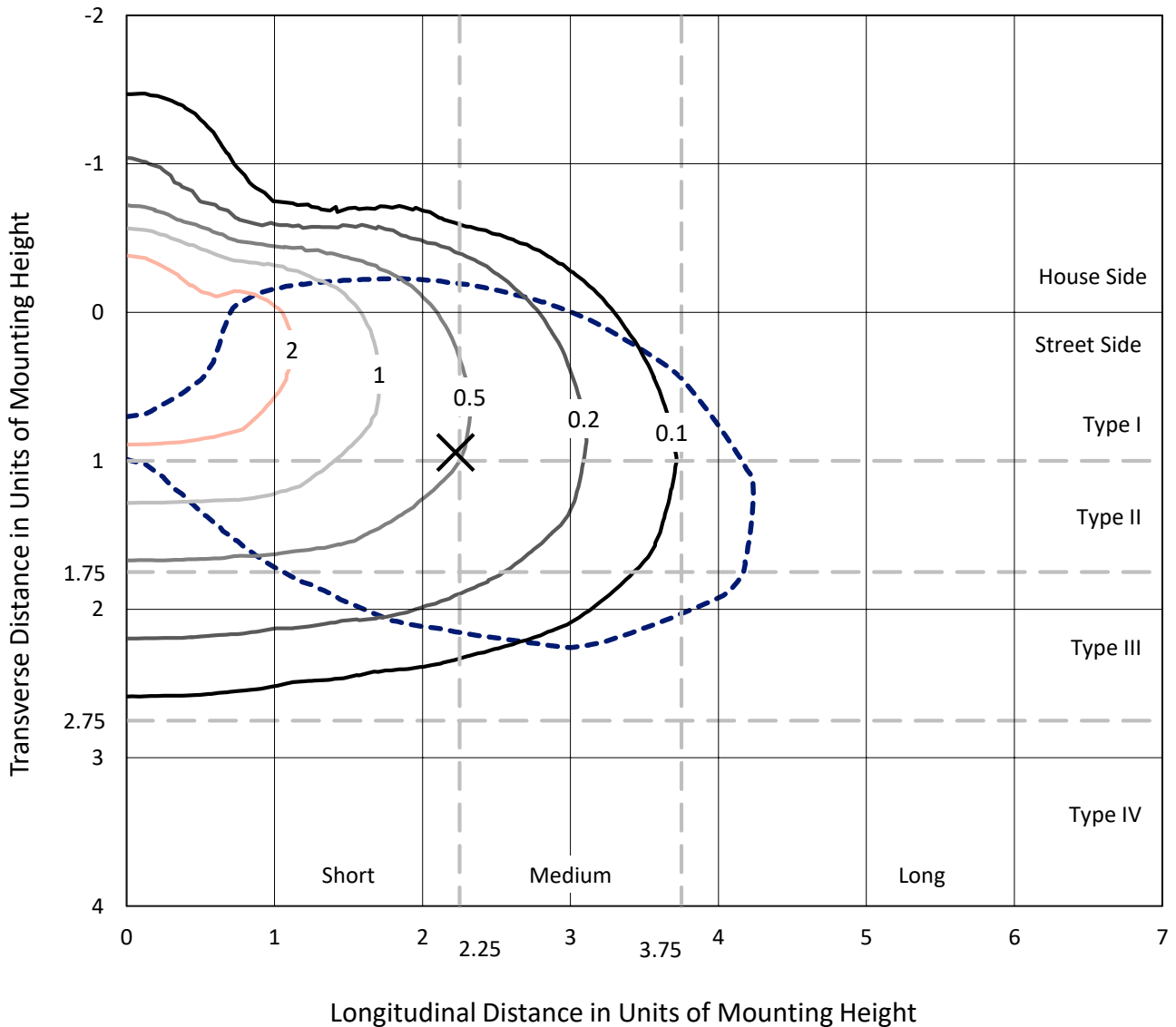
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509311
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Iso-Footcandle Lines of Horizontal Illumination

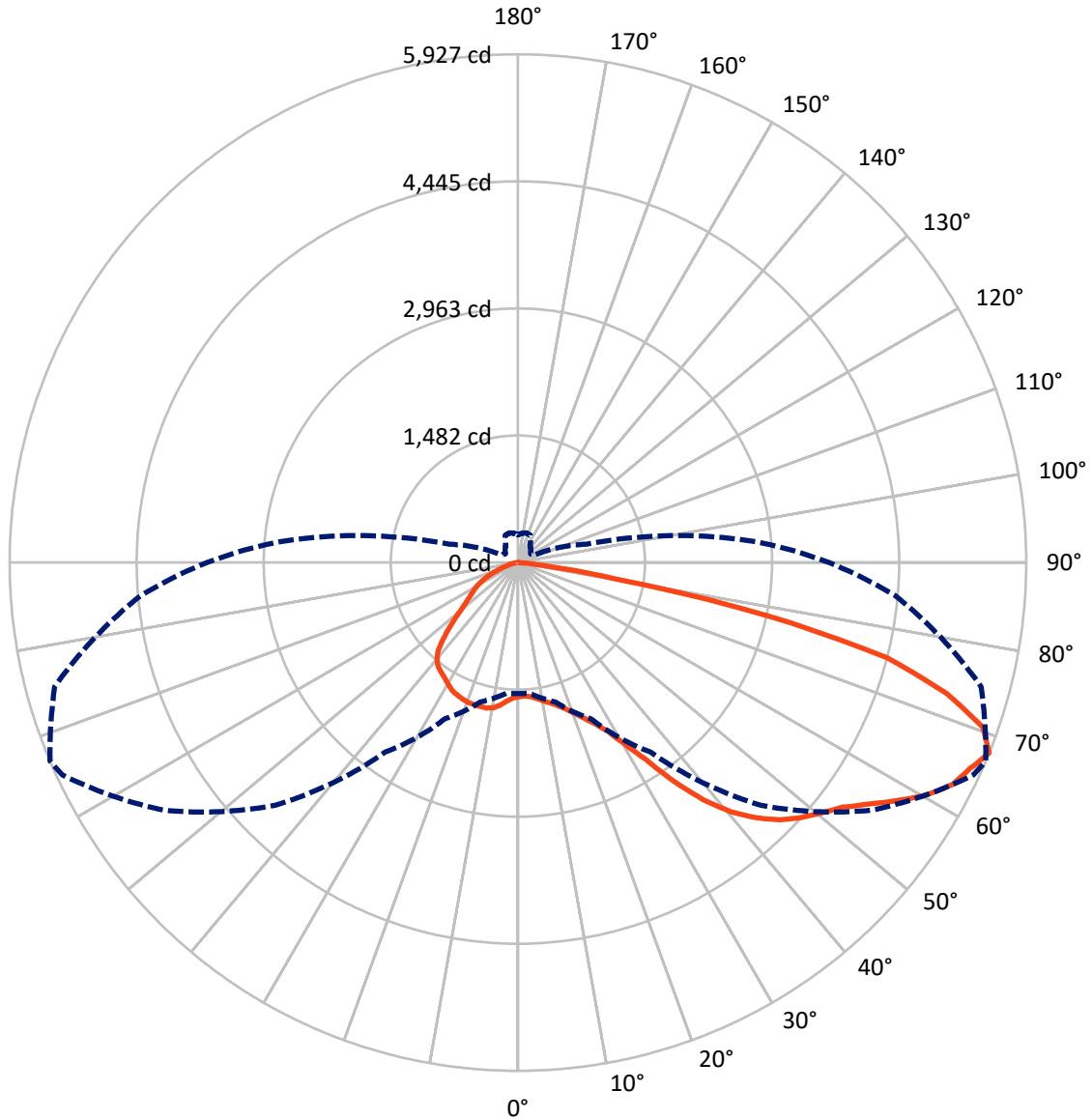
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

REPORT NUMBER: P509311
CATALOG NUMBER: VERD-CA2-70-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: VERD-CA2-70-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2363.8	0.0	2363.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7974.2	0.0	7974.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	10338.0	0.0	10338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	1.5
10°-20°	506.9	4.9
20°-30°	875.9	8.5
30°-40°	1329.5	12.9
40°-50°	1806.6	17.5
50°-60°	2148.5	20.8
60°-70°	2210.6	21.4
70°-80°	1205.9	11.7
80°-90°	95.8	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°	10338.0	100.0
0°-180°	10338.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509311

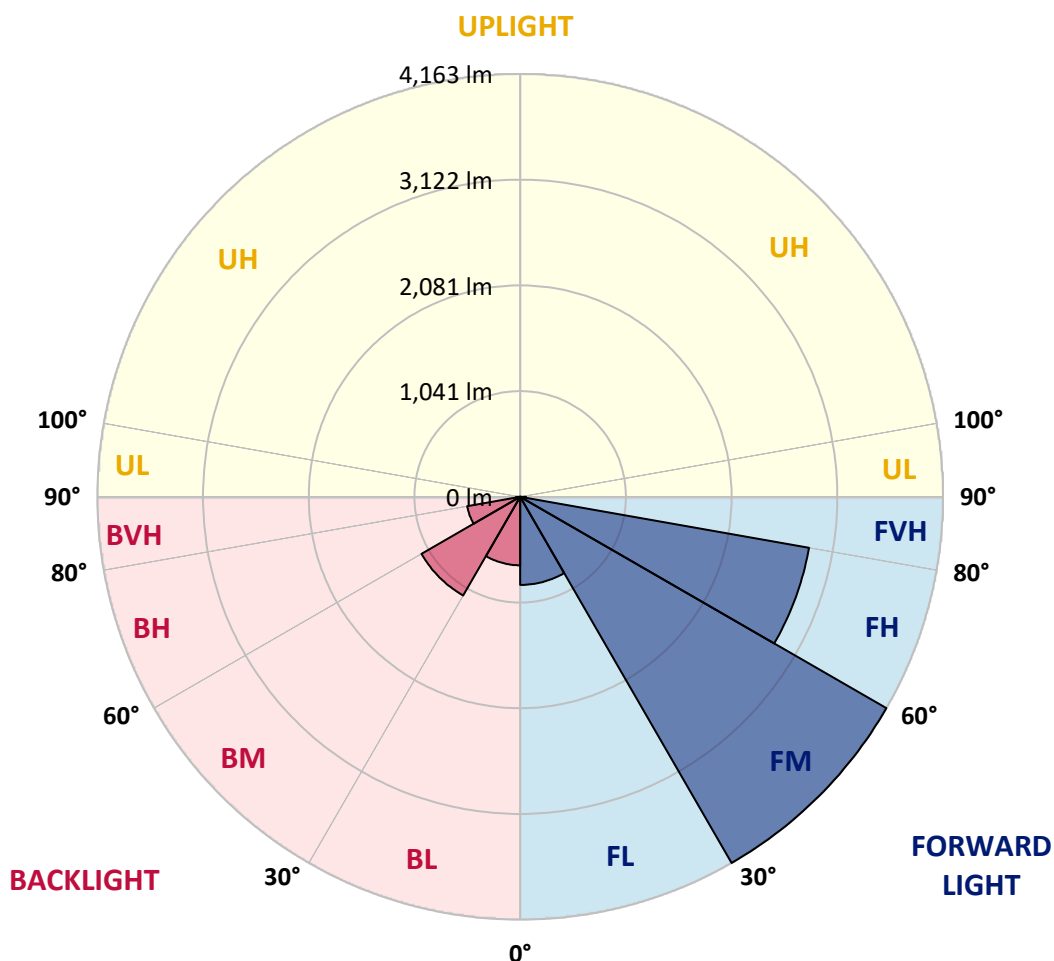
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.1	8.4			
FM	(30°-60°)	4162.5	40.3			
FH	(60°-80°)	2887.2	27.9			G2/5000
FVH	(80°-90°)	57.4	0.6			G1/100
BL	(0°-30°)	674.1	6.5	B2/1000		
BM	(30°-60°)	1122.1	10.9	B2/2500		
BH	(60°-80°)	529.2	5.1	B2/1000		G2/1000
BVH	(80°-90°)	38.5	0.4			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 III Short





REPORT NUMBER: P509311
 CATALOG NUMBER: VERD-CA2-70-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0
2.5°	1572.9	1566.2	1557.3	1560.6	1553.9	1565.1	1560.6	1558.4	1558.4	1559.5	1565.1
5°	1608.8	1602.0	1595.3	1594.2	1580.8	1585.2	1578.5	1571.8	1571.8	1570.7	1572.9
7.5°	1671.4	1662.5	1654.7	1653.5	1636.7	1634.5	1614.3	1600.9	1600.9	1599.8	1603.2
10°	1754.3	1750.9	1735.3	1725.2	1705.0	1691.6	1667.0	1645.7	1641.2	1634.5	1643.5
12.5°	1833.8	1832.7	1818.1	1806.9	1778.9	1755.4	1715.1	1686.0	1680.4	1672.6	1679.3
15°	1933.4	1923.3	1907.7	1900.9	1860.6	1824.8	1778.9	1735.3	1729.7	1720.7	1726.3
17.5°	2043.1	2037.5	2012.9	2005.1	1954.7	1913.3	1856.2	1800.2	1791.2	1778.9	1777.8
20°	2175.2	2165.2	2146.1	2123.7	2074.5	2015.1	1949.1	1885.3	1877.4	1867.4	1846.1
22.5°	2317.4	2306.2	2287.2	2263.7	2201.0	2138.3	2055.4	1974.8	1970.4	1963.6	1924.5
25°	2452.9	2433.8	2436.1	2413.7	2357.7	2278.2	2180.8	2084.5	2082.3	2081.2	2018.5
27.5°	2597.3	2577.1	2570.4	2562.6	2510.0	2435.0	2325.2	2233.4	2225.6	2226.7	2131.6
30°	2732.7	2723.8	2718.2	2712.6	2686.8	2619.7	2514.4	2432.7	2457.3	2455.1	2324.1
32.5°	2838.0	2831.3	2854.8	2881.6	2874.9	2819.0	2746.2	2709.2	2733.9	2813.4	2699.2
35°	2930.9	2927.5	2972.3	3029.4	3069.7	3029.4	3021.6	3078.7	3135.8	3267.9	3201.8
37.5°	3031.7	3027.2	3065.2	3162.6	3233.2	3245.5	3304.8	3451.5	3506.3	3638.4	3499.6
40°	3030.5	3036.1	3127.9	3252.2	3381.0	3485.1	3607.1	3749.3	3819.8	3882.5	3667.5
42.5°	2981.3	2984.6	3100.0	3336.2	3523.1	3728.0	3836.6	4019.1	4067.2	4079.5	3865.7
45°	2930.9	2933.1	3058.5	3323.9	3641.8	3955.3	4076.2	4243.0	4279.9	4237.4	4000.0
47.5°	2858.1	2872.7	3008.2	3311.5	3743.7	4164.6	4262.0	4427.7	4442.3	4388.5	4112.0
50°	2771.9	2779.8	2935.4	3271.2	3810.8	4294.5	4409.8	4559.8	4587.8	4527.3	4250.8
52.5°	2666.7	2673.4	2842.5	3217.5	3847.8	4394.1	4522.9	4702.0	4740.0	4713.2	4372.8
55°	2545.8	2549.1	2721.6	3130.2	3837.7	4437.8	4621.4	4903.5	4967.3	4901.3	4474.7
57.5°	2394.7	2407.0	2602.9	2999.2	3761.6	4492.6	4799.4	5152.0	5233.8	5092.7	4550.8
60°	2239.0	2251.4	2429.4	2846.9	3634.0	4517.3	4983.0	5419.6	5491.2	5274.1	4597.9
62.5°	2064.4	2081.2	2229.0	2617.4	3405.6	4484.8	5118.4	5653.6	5693.9	5382.7	4585.6
65°	1810.3	1819.2	1980.4	2340.9	3107.8	4315.8	5112.8	5779.0	5792.4	5502.4	4531.8
67.5°	1528.1	1529.3	1681.5	2007.3	2698.0	4000.0	5034.5	5860.7	5926.7	5590.9	4414.3
70°	1162.1	1177.7	1296.4	1538.2	2205.5	3460.4	4775.9	5780.1	5748.7	5349.1	4077.3
72.5°	829.6	820.6	881.1	1044.5	1543.8	2670.1	4117.6	5222.6	5229.3	4872.2	3547.8
75°	441.1	443.3	494.8	632.5	788.1	1737.5	3293.6	4412.0	4452.3	4178.0	2776.4
77.5°	98.5	112.0	170.2	241.8	342.6	556.4	1786.8	2894.0	2970.1	2749.5	1521.4
80°	76.1	77.2	112.0	137.7	151.1	266.4	567.6	1050.1	1165.4	1100.5	572.1
82.5°	50.4	51.5	73.9	76.1	72.8	122.0	257.5	314.6	345.9	302.3	212.7
85°	26.9	28.0	33.6	36.9	29.1	35.8	33.6	26.9	28.0	24.6	24.6
87.5°	5.6	3.4	4.5	3.4	3.4	2.2	3.4	3.4	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



REPORT NUMBER: P509311
 CATALOG NUMBER: VERD-CA2-70-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0
2.5°	1565.1	1567.3	1572.9	1581.9	1586.4	1596.4	1603.2	1619.9	1643.5	1635.6	1625.5
5°	1574.0	1580.8	1599.8	1623.3	1641.2	1668.1	1681.5	1714.0	1740.9	1738.6	1720.7
7.5°	1607.6	1622.2	1645.7	1680.4	1710.6	1737.5	1756.5	1791.2	1815.9	1805.8	1789.0
10°	1650.2	1664.7	1690.5	1721.8	1744.2	1773.3	1785.6	1813.6	1829.3	1817.0	1802.4
12.5°	1689.4	1697.2	1715.1	1738.6	1750.9	1770.0	1775.6	1795.7	1810.3	1804.7	1786.8
15°	1727.4	1726.3	1729.7	1736.4	1740.9	1745.3	1746.5	1761.0	1771.1	1759.9	1747.6
17.5°	1770.0	1758.8	1744.2	1733.0	1716.2	1708.4	1693.8	1700.6	1699.4	1690.5	1680.4
20°	1823.7	1803.5	1758.8	1724.1	1680.4	1645.7	1615.5	1609.9	1609.9	1585.2	1584.1
22.5°	1887.5	1853.9	1778.9	1702.8	1632.3	1577.4	1521.4	1489.0	1465.5	1447.5	1439.7
25°	1970.4	1908.8	1796.8	1673.7	1569.6	1469.9	1386.0	1341.2	1296.4	1267.3	1262.8
27.5°	2058.8	1991.6	1808.0	1647.9	1483.4	1346.8	1230.4	1138.6	1097.1	1078.1	1060.2
30°	2203.2	2084.5	1828.2	1593.1	1374.8	1195.6	1041.2	933.7	893.4	879.9	868.7
32.5°	2553.6	2325.2	1847.2	1537.1	1258.3	1028.8	825.1	734.4	699.7	713.1	717.6
35°	2992.5	2683.5	1937.9	1472.2	1137.4	839.6	634.8	574.3	576.6	596.7	603.4
37.5°	3290.3	2999.2	2122.6	1390.4	963.9	622.5	491.5	472.4	489.2	507.1	510.5
40°	3464.9	3143.6	2252.5	1289.7	759.0	465.7	369.4	356.0	391.8	432.1	456.8
42.5°	3650.8	3266.8	2319.6	1158.7	532.9	337.0	283.2	293.3	350.4	385.1	400.8
45°	3750.4	3363.0	2289.4	971.7	362.7	262.0	254.1	282.1	339.2	370.6	375.0
47.5°	3857.9	3459.3	2216.7	776.9	277.6	248.5	249.7	283.2	341.5	375.0	375.0
50°	3950.8	3538.8	2086.8	609.0	264.2	239.6	250.8	288.8	344.8	373.9	372.8
52.5°	4058.3	3574.6	1902.1	492.6	250.8	231.7	251.9	293.3	339.2	356.0	353.8
55°	4091.8	3548.9	1813.6	412.0	240.7	227.3	256.4	300.0	337.0	340.3	334.7
57.5°	4091.8	3479.5	1712.9	351.5	231.7	227.3	258.6	298.9	349.3	370.6	368.3
60°	4073.9	3406.7	1558.4	314.6	219.4	225.0	259.7	315.7	415.3	438.9	437.7
62.5°	4016.8	3289.2	1368.1	277.6	207.1	226.1	256.4	339.2	474.7	464.6	440.0
65°	3881.4	3067.5	1109.4	244.1	193.7	226.1	251.9	372.8	422.1	403.0	394.1
67.5°	3626.1	2788.7	825.1	209.4	178.0	211.6	245.2	349.3	358.2	337.0	323.5
70°	3289.2	2362.2	529.5	176.9	161.2	199.3	240.7	328.0	345.9	320.2	303.4
72.5°	2740.6	1876.3	306.7	144.4	136.6	183.6	231.7	317.9	340.3	305.6	282.1
75°	1933.4	1184.5	201.5	106.4	109.7	156.7	214.9	297.8	319.1	276.5	242.9
77.5°	985.2	444.4	143.3	78.4	73.9	119.8	185.8	274.3	314.6	278.8	238.5
80°	348.2	223.9	94.0	51.5	48.1	73.9	142.2	232.9	295.6	272.0	264.2
82.5°	148.9	112.0	51.5	32.5	29.1	36.9	80.6	183.6	259.7	246.3	297.8
85°	21.3	19.0	14.6	12.3	12.3	16.8	25.7	90.7	175.8	200.4	242.9
87.5°	3.4	3.4	3.4	2.2	2.2	2.2	1.1	13.4	58.2	87.3	120.9
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)