

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: P509415

Luminaire Tested: **VERD-CA2-90-740-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509415
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-CA2-90-740-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12966 lumens
Efficiency: N/A
Efficacy: 137.6 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

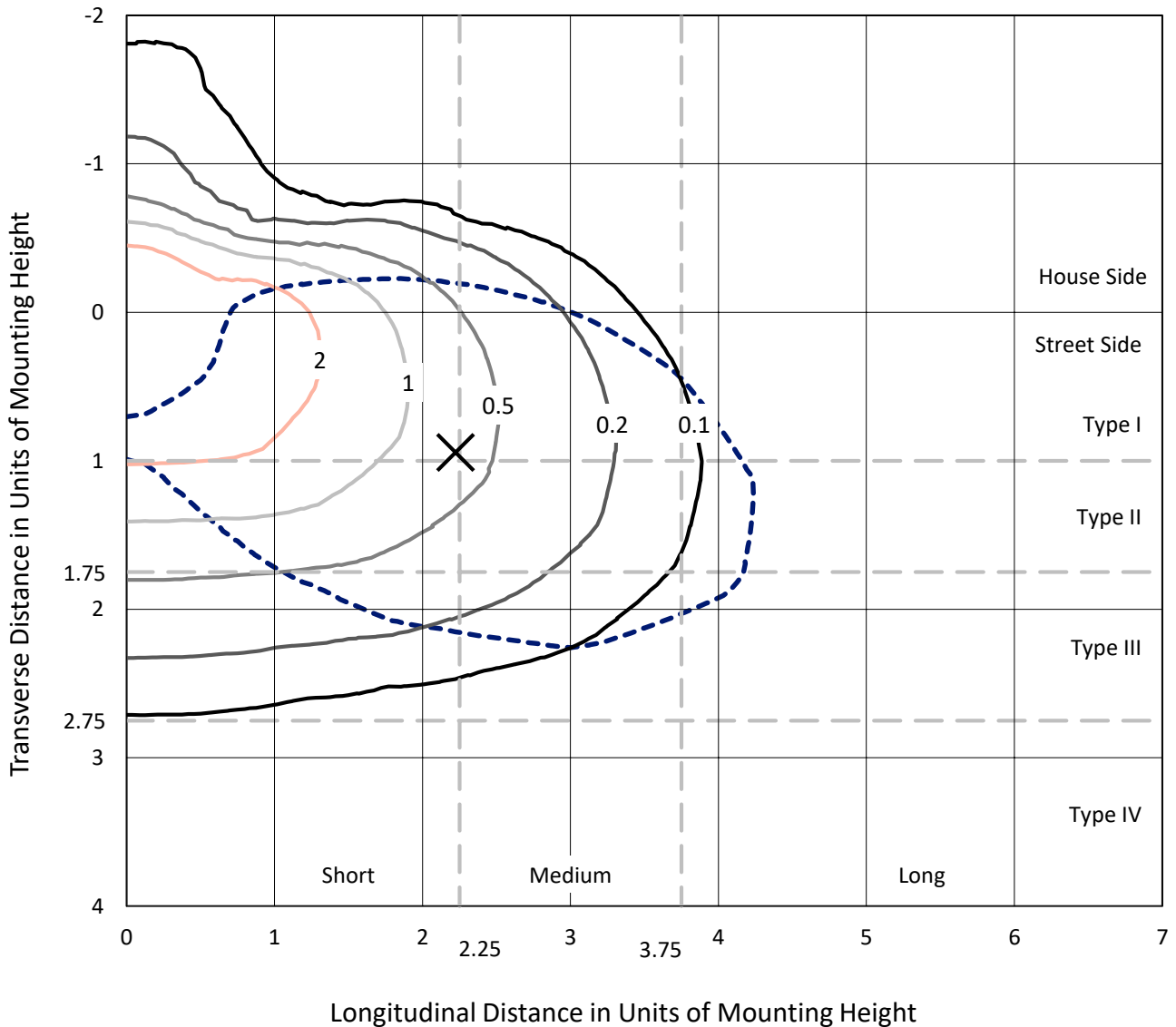
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509415
 CATALOG NUMBER: VERD-CA2-90-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

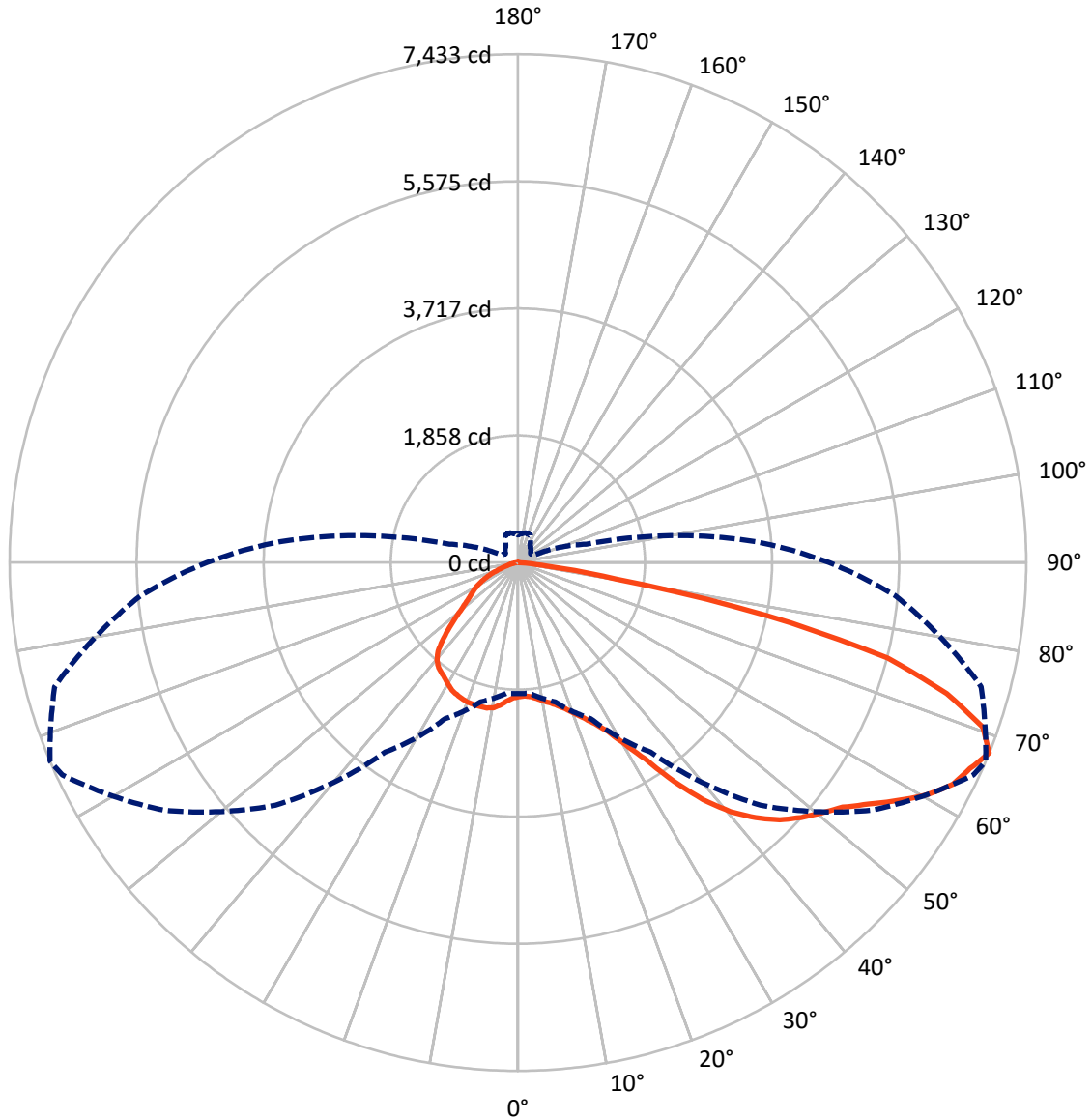
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

REPORT NUMBER: P509415
CATALOG NUMBER: VERD-CA2-90-740-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509415

CATALOG NUMBER: VERD-CA2-90-740-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2964.7	0.0	2964.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10001.2	0.0	10001.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	12966.0	0.0	12966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	1.5
10°-20°	635.8	4.9
20°-30°	1098.5	8.5
30°-40°	1667.5	12.9
40°-50°	2265.8	17.5
50°-60°	2694.7	20.8
60°-70°	2772.5	21.4
70°-80°	1512.4	11.7
80°-90°	120.2	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°	12966.0	100.0
0°-180°	12966.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509415

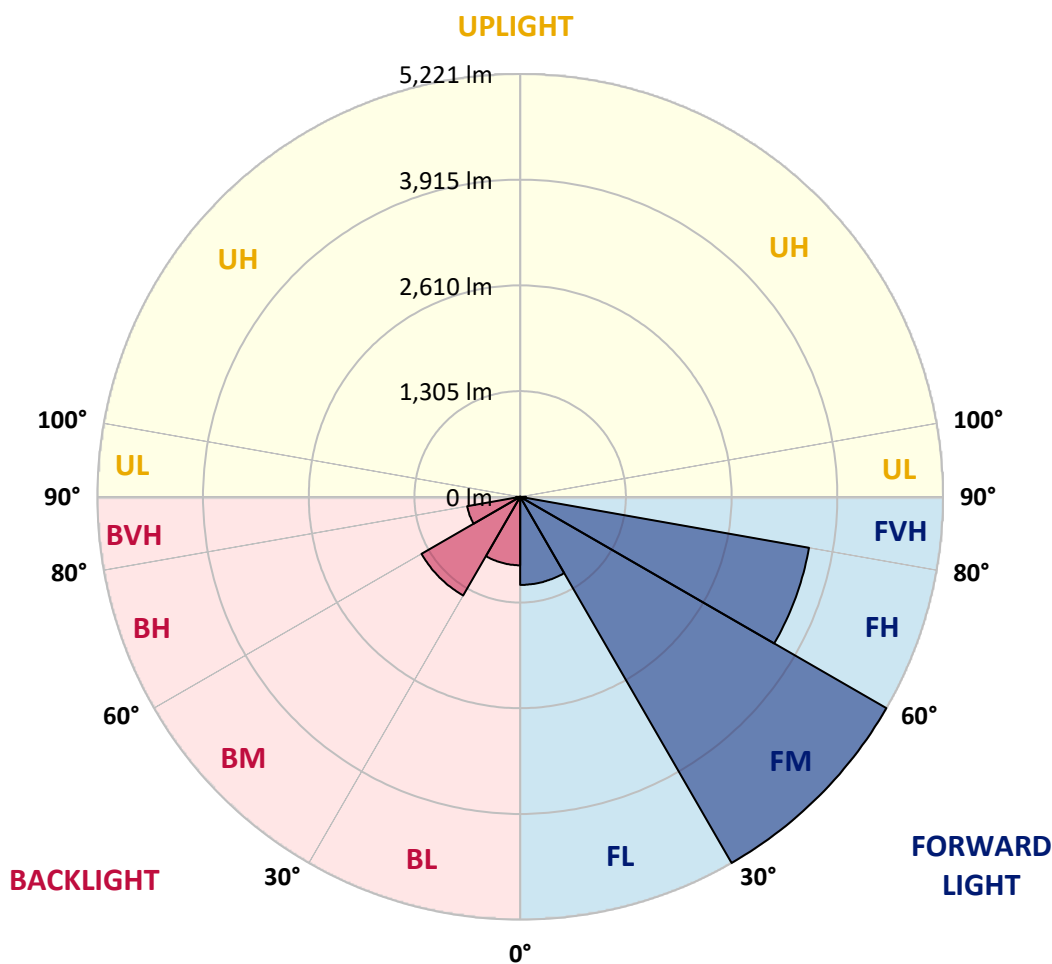
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.5	8.4			
FM (30°-60°)	5220.6	40.3			
FH (60°-80°)	3621.1	27.9			G2/5000
FVH (80°-90°)	71.9	0.6			G1/100
BL (0°-30°)	845.4	6.5	B2/1000		
BM (30°-60°)	1407.3	10.9	B2/2500		
BH (60°-80°)	663.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	48.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P509415

CATALOG NUMBER: VERD-CA2-90-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5
2.5°	1972.8	1964.4	1953.1	1957.3	1948.9	1962.9	1957.3	1954.5	1954.5	1955.9	1962.9
5°	2017.7	2009.3	2000.9	1999.5	1982.6	1988.2	1979.8	1971.4	1971.4	1970.0	1972.8
7.5°	2096.3	2085.1	2075.3	2073.9	2052.8	2050.0	2024.7	2007.9	2007.9	2006.5	2010.7
10°	2200.2	2196.0	2176.4	2163.7	2138.5	2121.6	2090.7	2064.0	2058.4	2050.0	2061.2
12.5°	2299.9	2298.5	2280.3	2266.2	2231.1	2201.6	2151.1	2114.6	2107.6	2097.7	2106.2
15°	2424.9	2412.3	2392.6	2384.2	2333.6	2288.7	2231.1	2176.4	2169.4	2158.1	2165.1
17.5°	2562.5	2555.5	2524.6	2514.8	2451.6	2399.6	2328.0	2257.8	2246.6	2231.1	2229.7
20°	2728.2	2715.6	2691.7	2663.6	2601.8	2527.4	2444.6	2364.5	2354.7	2342.1	2315.4
22.5°	2906.5	2892.5	2868.6	2839.1	2760.5	2681.9	2577.9	2476.9	2471.2	2462.8	2413.7
25°	3076.4	3052.5	3055.3	3027.3	2957.1	2857.4	2735.2	2614.5	2611.6	2610.2	2531.6
27.5°	3257.5	3232.3	3223.8	3214.0	3148.0	3053.9	2916.3	2801.2	2791.4	2792.8	2673.4
30°	3427.4	3416.2	3409.2	3402.2	3369.9	3285.6	3153.6	3051.1	3082.0	3079.2	2914.9
32.5°	3559.4	3551.0	3580.5	3614.2	3605.8	3535.6	3444.3	3397.9	3428.8	3528.5	3385.3
35°	3676.0	3671.8	3727.9	3799.5	3850.1	3799.5	3789.7	3861.3	3932.9	4098.6	4015.8
37.5°	3802.3	3796.7	3844.5	3966.6	4055.1	4070.5	4144.9	4328.9	4397.7	4563.4	4389.3
40°	3800.9	3807.9	3923.1	4078.9	4240.4	4371.0	4524.0	4702.4	4790.8	4869.5	4599.9
42.5°	3739.1	3743.4	3888.0	4184.3	4418.7	4675.7	4811.9	5040.8	5101.1	5116.6	4848.4
45°	3676.0	3678.8	3836.0	4168.8	4567.6	4960.7	5112.4	5321.6	5367.9	5314.6	5016.9
47.5°	3584.7	3602.9	3772.8	4153.4	4695.3	5223.3	5345.5	5553.3	5571.5	5504.1	5157.3
50°	3476.6	3486.4	3681.6	4102.8	4779.6	5386.2	5530.8	5718.9	5754.0	5678.2	5331.4
52.5°	3344.6	3353.0	3565.0	4035.4	4825.9	5511.1	5672.6	5897.3	5945.0	5911.3	5484.5
55°	3192.9	3197.2	3413.4	3925.9	4813.3	5565.9	5796.2	6150.0	6230.0	6147.2	5612.2
57.5°	3003.4	3018.8	3264.6	3761.6	4717.8	5634.7	6019.4	6461.7	6564.2	6387.3	5707.7
60°	2808.2	2823.7	3046.9	3570.7	4557.7	5665.6	6249.7	6797.3	6887.2	6614.8	5766.7
62.5°	2589.2	2610.2	2795.6	3282.8	4271.3	5624.9	6419.6	7090.8	7141.3	6751.0	5751.2
65°	2270.4	2281.7	2483.9	2936.0	3897.8	5412.8	6412.6	7248.0	7264.9	6901.2	5683.8
67.5°	1916.6	1918.0	2109.0	2517.6	3383.9	5016.9	6314.3	7350.5	7433.4	7012.1	5536.4
70°	1457.5	1477.1	1626.0	1929.2	2766.1	4340.1	5989.9	7249.4	7210.1	6708.8	5113.8
72.5°	1040.4	1029.2	1105.0	1310.0	1936.3	3348.8	5164.3	6550.2	6558.6	6110.7	4449.6
75°	553.2	556.0	620.6	793.3	988.5	2179.2	4130.9	5533.6	5584.1	5240.1	3482.2
77.5°	123.6	140.4	213.4	303.3	429.7	697.8	2241.0	3629.6	3725.1	3448.5	1908.2
80°	95.5	96.9	140.4	172.7	189.6	334.2	711.9	1317.1	1461.7	1380.2	717.5
82.5°	63.2	64.6	92.7	95.5	91.3	153.0	322.9	394.6	433.9	379.1	266.8
85°	33.7	35.1	42.1	46.3	36.5	44.9	42.1	33.7	35.1	30.9	30.9
87.5°	7.0	4.2	5.6	4.2	4.2	2.8	4.2	4.2	4.2	4.2	4.2
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: P509415
 CATALOG NUMBER: VERD-CA2-90-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5
2.5°	1962.9	1965.8	1972.8	1984.0	1989.6	2002.3	2010.7	2031.7	2061.2	2051.4	2038.8
5°	1974.2	1982.6	2006.5	2036.0	2058.4	2092.1	2109.0	2149.7	2183.4	2180.6	2158.1
7.5°	2016.3	2034.6	2064.0	2107.6	2145.5	2179.2	2203.1	2246.6	2277.5	2264.8	2243.8
10°	2069.7	2087.9	2120.2	2159.5	2187.6	2224.1	2239.6	2274.7	2294.3	2278.9	2260.6
12.5°	2118.8	2128.6	2151.1	2180.6	2196.0	2219.9	2226.9	2252.2	2270.4	2263.4	2241.0
15°	2166.5	2165.1	2169.4	2177.8	2183.4	2189.0	2190.4	2208.7	2221.3	2207.3	2191.8
17.5°	2219.9	2205.9	2187.6	2173.6	2152.5	2142.7	2124.4	2132.8	2131.4	2120.2	2107.6
20°	2287.3	2262.0	2205.9	2162.3	2107.6	2064.0	2026.1	2019.1	2019.1	1988.2	1986.8
22.5°	2367.3	2325.2	2231.1	2135.7	2047.2	1978.4	1908.2	1867.5	1838.0	1815.5	1805.7
25°	2471.2	2394.0	2253.6	2099.1	1968.6	1843.6	1738.3	1682.1	1626.0	1589.5	1583.8
27.5°	2582.2	2497.9	2267.6	2066.9	1860.4	1689.1	1543.1	1428.0	1376.0	1352.2	1329.7
30°	2763.3	2614.5	2292.9	1998.0	1724.2	1499.6	1305.8	1171.0	1120.5	1103.6	1089.6
32.5°	3202.8	2916.3	2316.8	1927.8	1578.2	1290.4	1034.8	921.1	877.6	894.4	900.0
35°	3753.2	3365.7	2430.5	1846.4	1426.6	1053.1	796.1	720.3	723.1	748.4	756.8
37.5°	4126.7	3761.6	2662.2	1743.9	1208.9	780.7	616.4	592.5	613.6	636.1	640.3
40°	4345.7	3942.7	2825.1	1617.5	952.0	584.1	463.4	446.5	491.4	542.0	572.9
42.5°	4578.8	4097.2	2909.3	1453.3	668.4	422.6	355.2	367.9	439.5	483.0	502.7
45°	4703.8	4217.9	2871.4	1218.8	454.9	328.6	318.7	353.8	425.4	464.8	470.4
47.5°	4838.6	4338.7	2780.1	974.5	348.2	311.7	313.1	355.2	428.3	470.4	470.4
50°	4955.1	4438.4	2617.3	763.8	331.4	300.5	314.5	362.3	432.5	469.0	467.6
52.5°	5089.9	4483.3	2385.6	617.8	314.5	290.7	315.9	367.9	425.4	446.5	443.7
55°	5132.0	4451.0	2274.7	516.7	301.9	285.0	321.5	376.3	422.6	426.8	419.8
57.5°	5132.0	4364.0	2148.3	440.9	290.7	285.0	324.3	374.9	438.1	464.8	462.0
60°	5109.6	4272.7	1954.5	394.6	275.2	282.2	325.8	396.0	520.9	550.4	549.0
62.5°	5038.0	4125.3	1715.8	348.2	259.8	283.6	321.5	425.4	595.3	582.7	551.8
65°	4868.1	3847.3	1391.5	306.1	242.9	283.6	315.9	467.6	529.3	505.5	494.2
67.5°	4547.9	3497.6	1034.8	262.6	223.3	265.4	307.5	438.1	449.3	422.6	405.8
70°	4125.3	2962.7	664.1	221.8	202.2	249.9	301.9	411.4	433.9	401.6	380.5
72.5°	3437.3	2353.3	384.7	181.1	171.3	230.3	290.7	398.8	426.8	383.3	353.8
75°	2424.9	1485.5	252.7	133.4	137.6	196.6	269.6	373.5	400.2	346.8	304.7
77.5°	1235.6	557.4	179.7	98.3	92.7	150.2	233.1	344.0	394.6	349.6	299.1
80°	436.7	280.8	117.9	64.6	60.4	92.7	178.3	292.1	370.7	341.2	331.4
82.5°	186.7	140.4	64.6	40.7	36.5	46.3	101.1	230.3	325.8	308.9	373.5
85°	26.7	23.9	18.3	15.4	15.4	21.1	32.3	113.7	220.4	251.3	304.7
87.5°	4.2	4.2	4.2	2.8	2.8	2.8	1.4	16.8	73.0	109.5	151.6
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)