

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: P509431

Luminaire Tested: **VERD-CA2-90-760-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509431  
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-CA2-90-760-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1250mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12924 lumens  
Efficiency: N/A  
Efficacy: 137.2 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

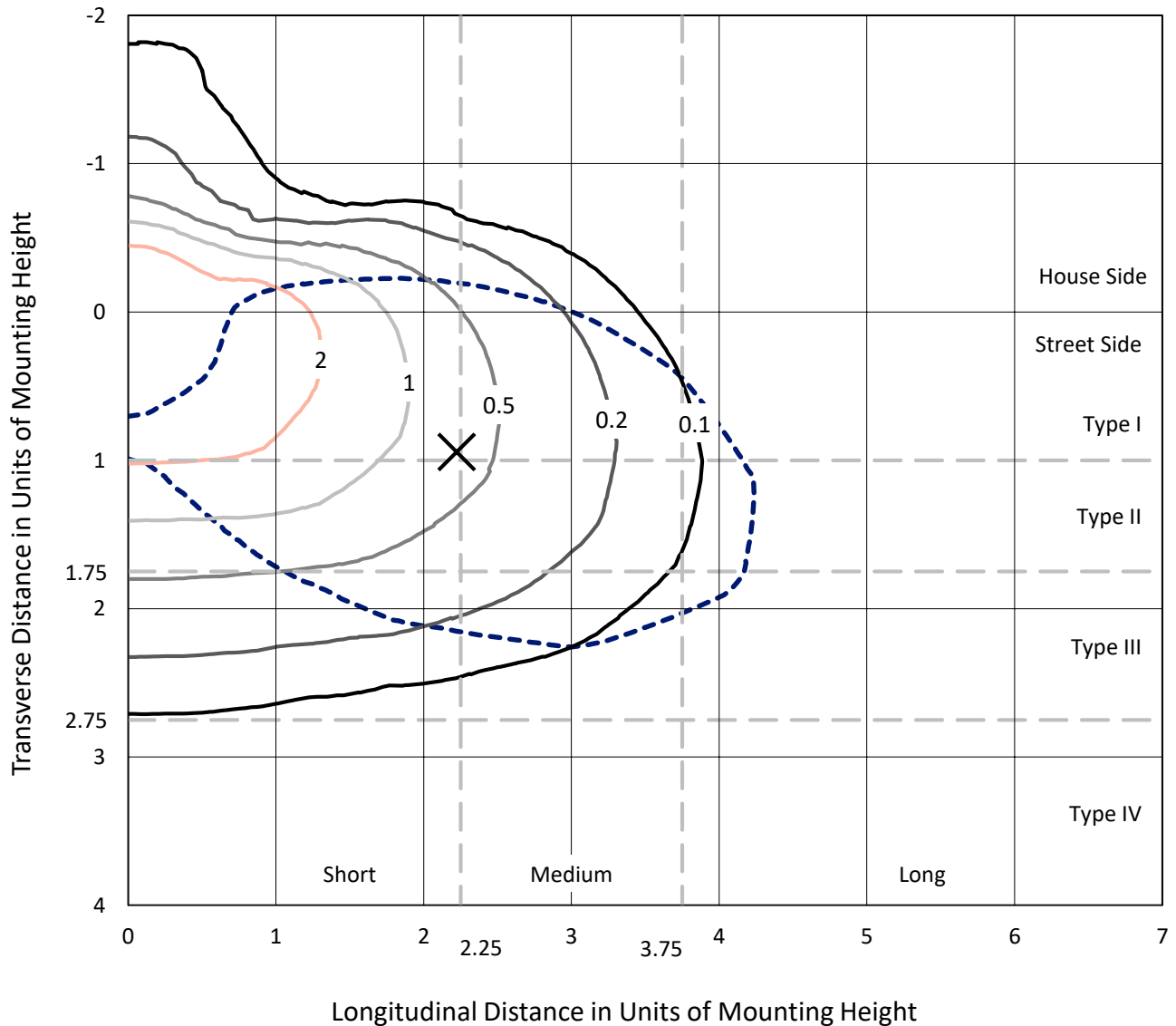
Input Watts (W): 94.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

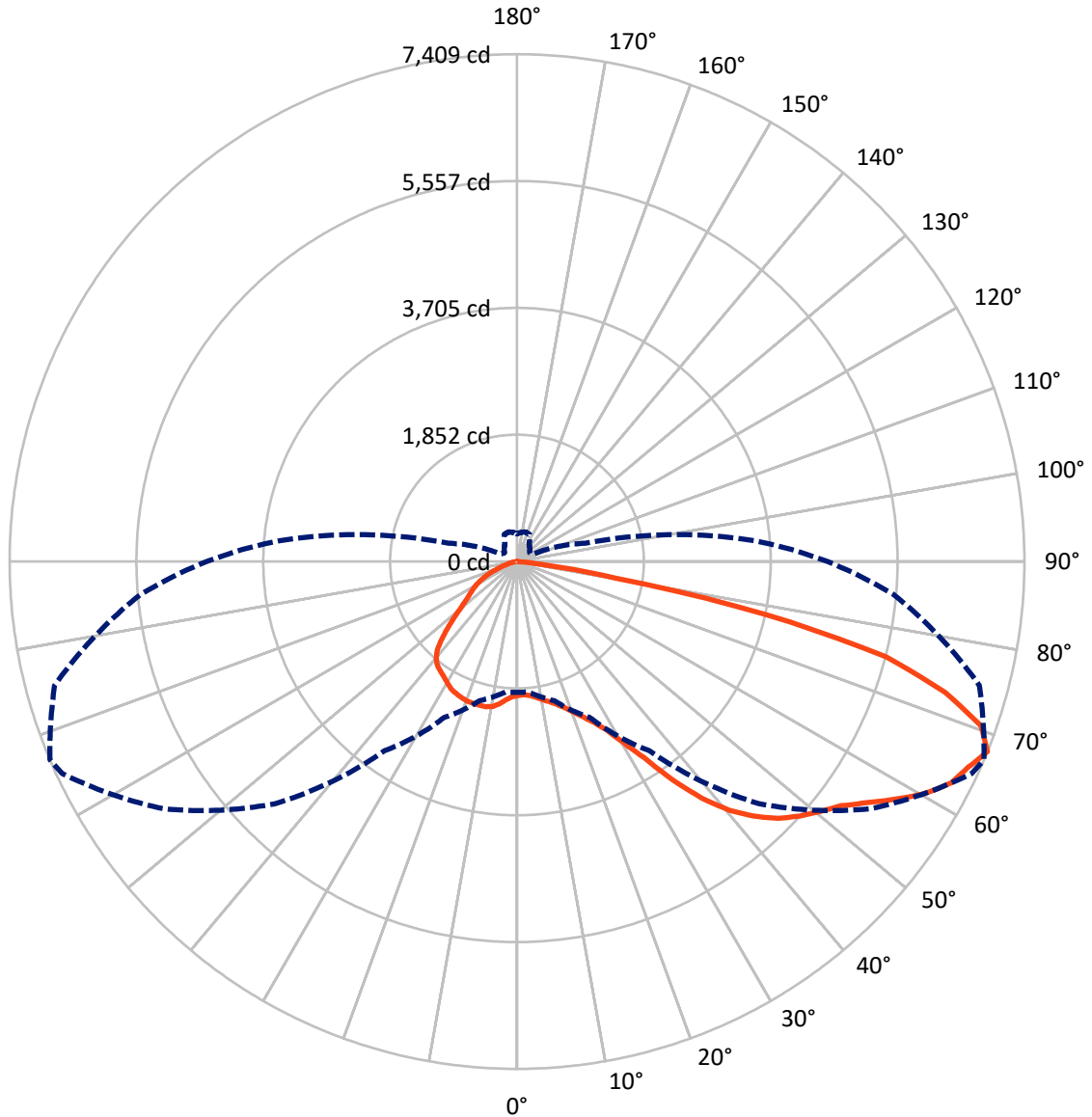
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2955.2	0.0	2955.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	9968.8	0.0	9968.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	12924.0	0.0	12924.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.0	1.5
10°-20°	633.7	4.9
20°-30°	1095.0	8.5
30°-40°	1662.1	12.9
40°-50°	2258.5	17.5
50°-60°	2686.0	20.8
60°-70°	2763.5	21.4
70°-80°	1507.5	11.7
80°-90°	119.8	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°	12924.0	100.0
0°-180°	12924.0	100.0

**Coefficient of Utilization**



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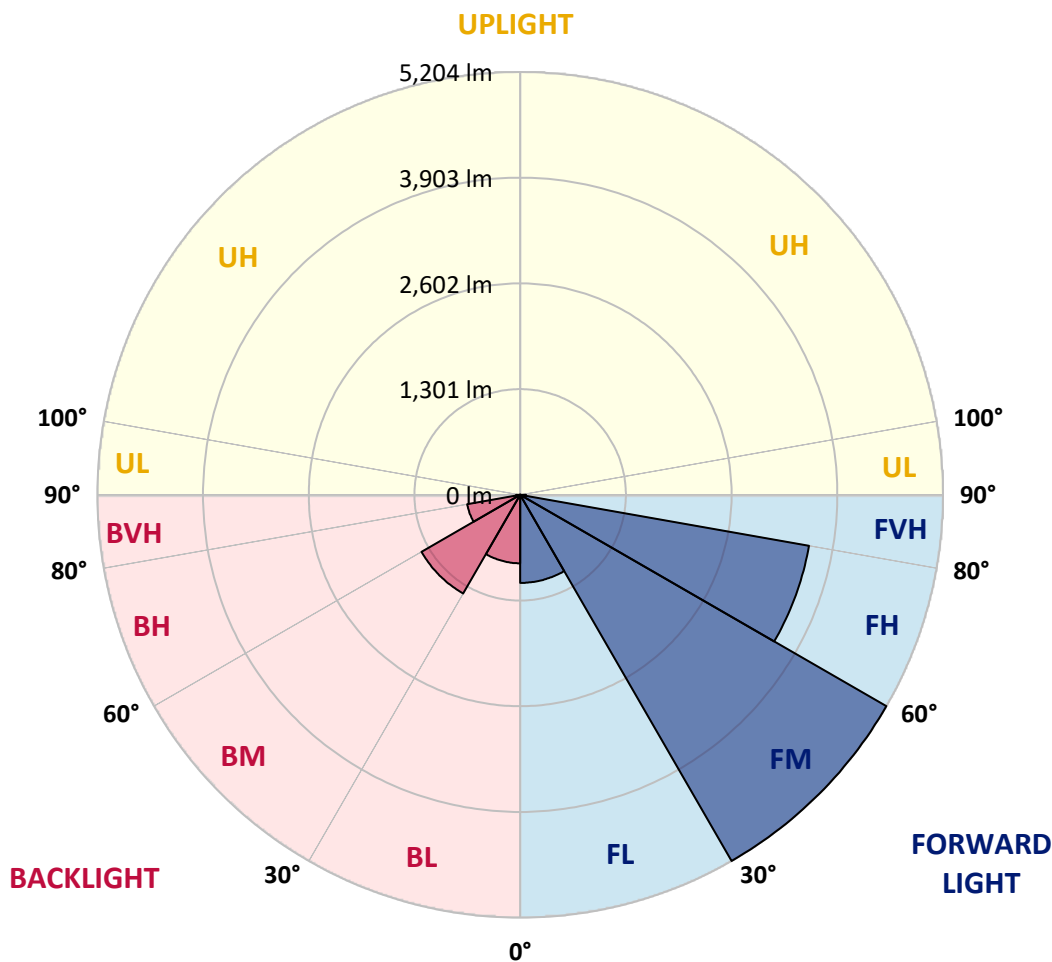
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1084.0	8.4			
FM (30°-60°)	5203.7	40.3			
FH (60°-80°)	3609.4	27.9			G2/5000
FVH (80°-90°)	71.7	0.6			G1/100
BL (0°-30°)	842.7	6.5	B2/1000		
BM (30°-60°)	1402.8	10.9	B2/2500		
BH (60°-80°)	661.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	48.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2
2.5°	1966.4	1958.0	1946.8	1951.0	1942.6	1956.6	1951.0	1948.2	1948.2	1949.6	1956.6
5°	2011.2	2002.8	1994.4	1993.0	1976.2	1981.8	1973.4	1965.0	1965.0	1963.6	1966.4
7.5°	2089.5	2078.4	2068.6	2067.2	2046.2	2043.4	2018.2	2001.4	2001.4	2000.0	2004.2
10°	2193.1	2188.9	2169.3	2156.7	2131.5	2114.7	2083.9	2057.4	2051.8	2043.4	2054.6
12.5°	2292.5	2291.1	2272.9	2258.9	2223.9	2194.5	2144.1	2107.7	2100.7	2090.9	2099.3
15°	2417.0	2404.4	2384.9	2376.5	2326.1	2281.3	2223.9	2169.3	2162.3	2151.1	2158.1
17.5°	2554.2	2547.2	2516.4	2506.6	2443.6	2391.9	2320.5	2250.5	2239.3	2223.9	2222.5
20°	2719.4	2706.8	2683.0	2655.0	2593.4	2519.2	2436.6	2356.9	2347.1	2334.5	2307.9
22.5°	2897.1	2883.1	2859.3	2829.9	2751.5	2673.2	2569.6	2468.8	2463.2	2454.8	2405.8
25°	3066.4	3042.6	3045.4	3017.5	2947.5	2848.1	2726.3	2606.0	2603.2	2601.8	2523.4
27.5°	3247.0	3221.8	3213.4	3203.6	3137.8	3044.0	2906.9	2792.1	2782.3	2783.7	2664.8
30°	3416.3	3405.1	3398.1	3391.1	3359.0	3275.0	3143.4	3041.2	3072.0	3069.2	2905.5
32.5°	3547.9	3539.5	3568.9	3602.5	3594.1	3524.1	3433.1	3386.9	3417.7	3517.1	3374.3
35°	3664.1	3659.9	3715.8	3787.2	3837.6	3787.2	3777.4	3848.8	3920.2	4085.3	4002.7
37.5°	3790.0	3784.4	3832.0	3953.8	4041.9	4057.3	4131.5	4314.9	4383.4	4548.6	4375.0
40°	3788.6	3795.6	3910.4	4065.7	4226.7	4356.8	4509.4	4687.1	4775.3	4853.7	4585.0
42.5°	3727.0	3731.2	3875.4	4170.7	4404.4	4660.5	4796.3	5024.4	5084.6	5100.0	4832.7
45°	3664.1	3666.9	3823.6	4155.3	4552.8	4944.7	5095.8	5304.3	5350.5	5297.3	5000.6
47.5°	3573.1	3591.3	3760.6	4139.9	4680.1	5206.4	5328.1	5535.3	5553.5	5486.3	5140.6
50°	3465.3	3475.1	3669.7	4089.5	4764.1	5368.7	5512.9	5700.4	5735.4	5659.8	5314.1
52.5°	3333.8	3342.2	3553.5	4022.3	4810.3	5493.3	5654.2	5878.2	5925.7	5892.2	5466.7
55°	3182.6	3186.8	3402.3	3913.2	4797.7	5547.9	5777.4	6130.1	6209.9	6127.3	5594.1
57.5°	2993.7	3009.1	3254.0	3749.4	4702.5	5616.4	5999.9	6440.8	6543.0	6366.6	5689.2
60°	2799.1	2814.5	3037.1	3559.1	4543.0	5647.2	6229.5	6775.3	6864.9	6593.3	5748.0
62.5°	2580.8	2601.8	2786.5	3272.2	4257.5	5606.6	6398.8	7067.8	7118.2	6729.1	5732.6
65°	2263.1	2274.3	2475.8	2926.5	3885.2	5395.3	6391.8	7224.5	7241.3	6878.9	5665.4
67.5°	1910.4	1911.8	2102.1	2509.4	3372.9	5000.6	6293.8	7326.7	7409.3	6989.4	5518.5
70°	1452.7	1472.3	1620.7	1923.0	2757.1	4326.0	5970.5	7225.9	7186.8	6687.1	5097.2
72.5°	1037.1	1025.9	1101.5	1305.8	1930.0	3338.0	5147.6	6529.0	6537.4	6090.9	4435.2
75°	551.4	554.2	618.6	790.8	985.3	2172.1	4117.5	5515.7	5566.1	5223.2	3470.9
77.5°	123.2	140.0	212.7	302.3	428.3	695.6	2233.7	3617.9	3713.0	3437.3	1902.0
80°	95.2	96.6	140.0	172.1	188.9	333.1	709.6	1312.8	1456.9	1375.8	715.2
82.5°	63.0	64.4	92.4	95.2	91.0	152.6	321.9	393.3	432.5	377.9	265.9
85°	33.6	35.0	42.0	46.2	36.4	44.8	42.0	33.6	35.0	30.8	30.8
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2
2.5°	1956.6	1959.4	1966.4	1977.6	1983.2	1995.8	2004.2	2025.2	2054.6	2044.8	2032.2
5°	1967.8	1976.2	2000.0	2029.4	2051.8	2085.3	2102.1	2142.7	2176.3	2173.5	2151.1
7.5°	2009.8	2028.0	2057.4	2100.7	2138.5	2172.1	2195.9	2239.3	2270.1	2257.5	2236.5
10°	2063.0	2081.1	2113.3	2152.5	2180.5	2216.9	2232.3	2267.3	2286.9	2271.5	2253.3
12.5°	2111.9	2121.7	2144.1	2173.5	2188.9	2212.7	2219.7	2244.9	2263.1	2256.1	2233.7
15°	2159.5	2158.1	2162.3	2170.7	2176.3	2181.9	2183.3	2201.5	2214.1	2200.1	2184.7
17.5°	2212.7	2198.7	2180.5	2166.5	2145.5	2135.7	2117.5	2125.9	2124.5	2113.3	2100.7
20°	2279.9	2254.7	2198.7	2155.3	2100.7	2057.4	2019.6	2012.6	2012.6	1981.8	1980.4
22.5°	2359.7	2317.7	2223.9	2128.7	2040.6	1972.0	1902.0	1861.4	1832.0	1809.6	1799.8
25°	2463.2	2386.3	2246.3	2092.3	1962.2	1837.6	1732.7	1676.7	1620.7	1584.3	1578.7
27.5°	2573.8	2489.8	2260.3	2060.2	1854.4	1683.7	1538.1	1423.4	1371.6	1347.8	1325.4
30°	2754.3	2606.0	2285.5	1991.6	1718.7	1494.7	1301.6	1167.2	1116.9	1100.1	1086.1
32.5°	3192.4	2906.9	2309.3	1921.6	1573.1	1286.2	1031.5	918.1	874.7	891.5	897.1
35°	3741.0	3354.8	2422.6	1840.4	1422.0	1049.7	793.6	718.0	720.8	746.0	754.4
37.5°	4113.3	3749.4	2653.6	1738.3	1205.0	778.2	614.4	590.6	611.6	634.0	638.2
40°	4331.6	3930.0	2815.9	1612.3	948.9	582.2	461.9	445.1	489.8	540.2	571.0
42.5°	4564.0	4083.9	2899.9	1448.5	666.2	421.3	354.1	366.7	438.1	481.4	501.0
45°	4688.5	4204.3	2862.1	1214.8	453.5	327.5	317.7	352.7	424.1	463.3	468.9
47.5°	4822.9	4324.6	2771.1	971.3	347.1	310.7	312.1	354.1	426.9	468.9	468.9
50°	4939.1	4424.0	2608.8	761.4	330.3	299.5	313.5	361.1	431.1	467.5	466.1
52.5°	5073.4	4468.8	2377.9	615.8	313.5	289.7	314.9	366.7	424.1	445.1	442.3
55°	5115.4	4436.6	2267.3	515.0	300.9	284.1	320.5	375.1	421.3	425.5	418.5
57.5°	5115.4	4349.8	2141.3	439.5	289.7	284.1	323.3	373.7	436.7	463.3	460.5
60°	5093.0	4258.9	1948.2	393.3	274.3	281.3	324.7	394.7	519.2	548.6	547.2
62.5°	5021.6	4111.9	1710.3	347.1	258.9	282.7	320.5	424.1	593.4	580.8	550.0
65°	4852.3	3834.8	1387.0	305.1	242.1	282.7	314.9	466.1	527.6	503.8	492.6
67.5°	4533.2	3486.3	1031.5	261.7	222.5	264.5	306.5	436.7	447.9	421.3	404.5
70°	4111.9	2953.1	662.0	221.1	201.5	249.1	300.9	410.1	432.5	400.3	379.3
72.5°	3426.1	2345.7	383.5	180.5	170.7	229.5	289.7	397.5	425.5	382.1	352.7
75°	2417.0	1480.7	251.9	133.0	137.2	195.9	268.7	372.3	398.9	345.7	303.7
77.5°	1231.6	555.6	179.1	98.0	92.4	149.8	232.3	342.9	393.3	348.5	298.1
80°	435.3	279.9	117.6	64.4	60.2	92.4	177.7	291.1	369.5	340.1	330.3
82.5°	186.1	140.0	64.4	40.6	36.4	46.2	100.8	229.5	324.7	307.9	372.3
85°	26.6	23.8	18.2	15.4	15.4	21.0	32.2	113.4	219.7	250.5	303.7
87.5°	4.2	4.2	4.2	2.8	2.8	2.8	1.4	16.8	72.8	109.2	151.2
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)