

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: P509936

Luminaire Tested: **VERD-M-CA3-170-730-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-170-730-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1060mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21575 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

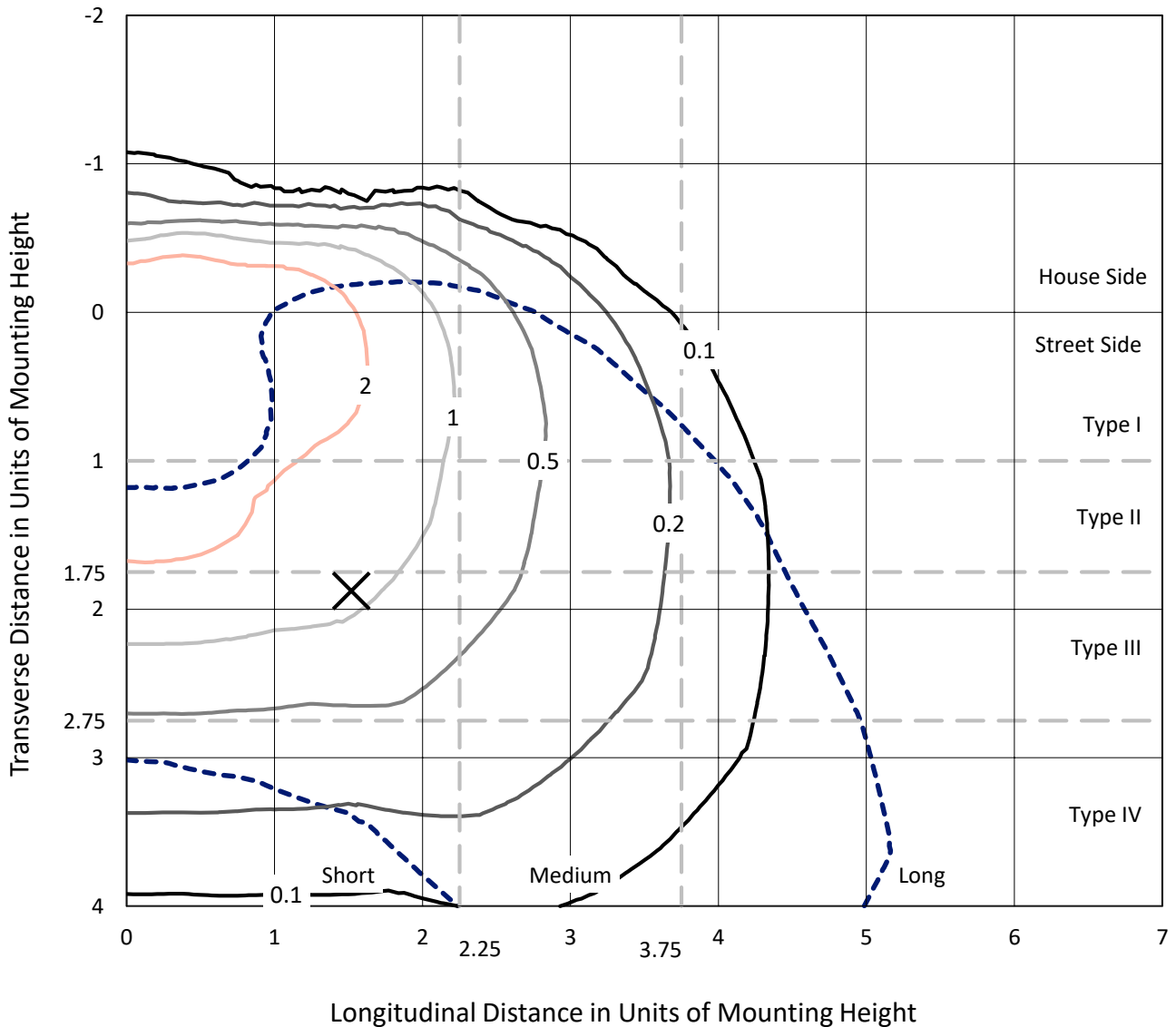
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509936  
 CATALOG NUMBER: VERD-M-CA3-170-730-U-T4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

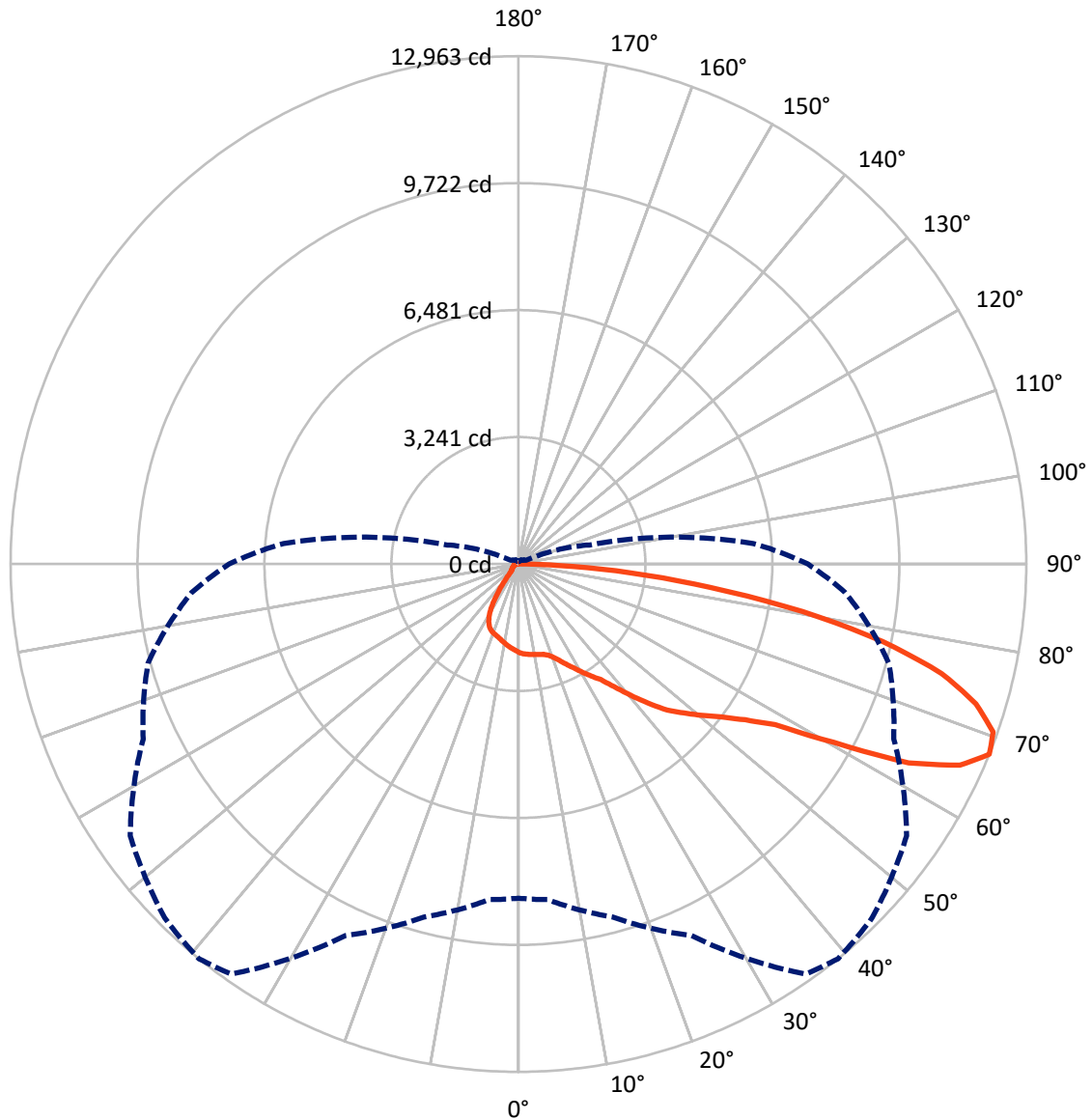
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P509936  
CATALOG NUMBER: VERD-M-CA3-170-730-U-T4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509936

CATALOG NUMBER: VERD-M-CA3-170-730-U-T4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3464.4	0.0	3464.4
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	18110.6	0.0	18110.6
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	21575.0	0.0	21575.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.3	1.0
10°-20°	634.8	2.9
20°-30°	1124.6	5.2
30°-40°	1801.3	8.3
40°-50°	2889.6	13.4
50°-60°	4223.8	19.6
60°-70°	5628.4	26.1
70°-80°	4223.6	19.6
80°-90°	835.7	3.9
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°	21575.0	100.0
0°-180°	21575.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509936

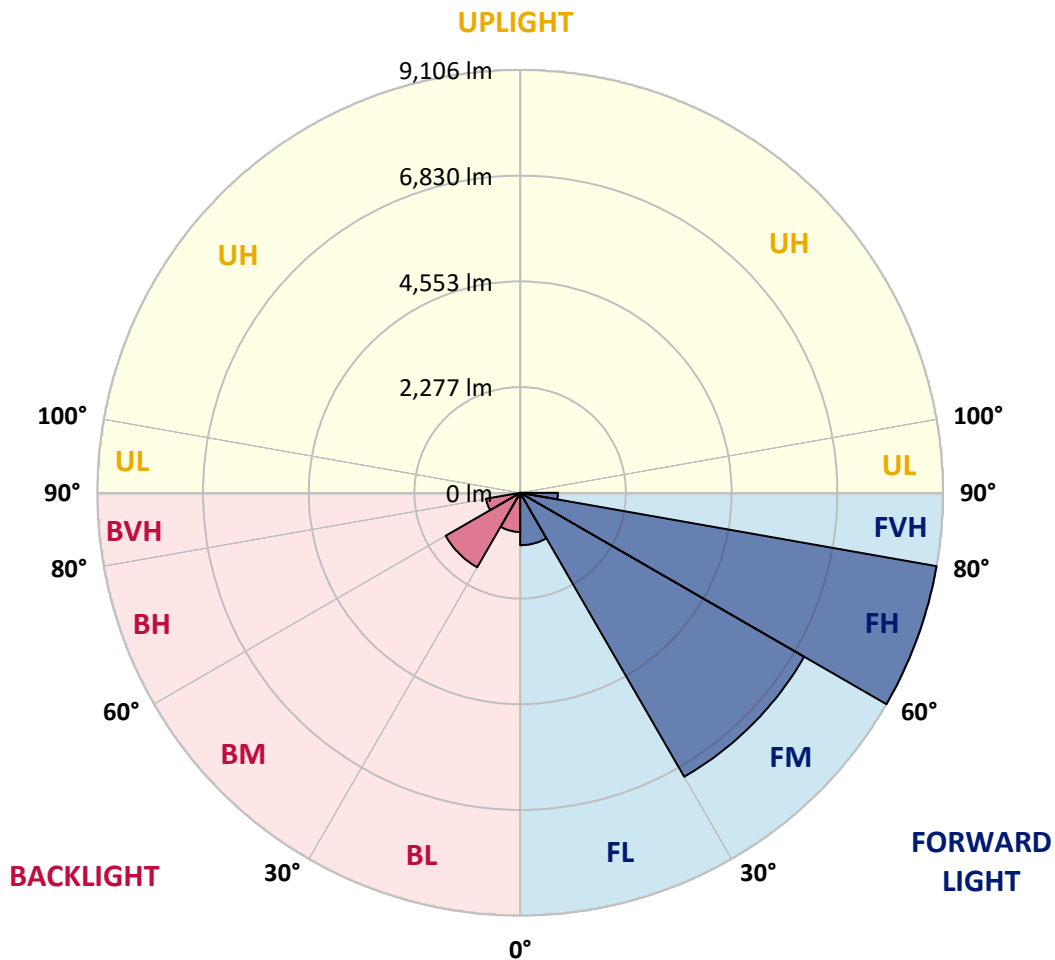
CATALOG NUMBER: VERD-M-CA3-170-730-U-T4-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1129.0	5.2			
FM	(30°-60°)	7061.7	32.7			
FH	(60°-80°)	9106.1	42.2			G4/12000
FVH	(80°-90°)	813.8	3.8			G5
BL	(0°-30°)	843.6	3.9	B2/1000		
BM	(30°-60°)	1853.0	8.6	B2/2500		
BH	(60°-80°)	745.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	21.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





REPORT NUMBER: P509936

CATALOG NUMBER: VERD-M-CA3-170-730-U-T4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1
2.5°	2261.3	2291.7	2291.7	2283.0	2288.4	2292.7	2260.2	2268.9	2265.6	2264.6	2271.1
5°	2278.6	2312.3	2310.1	2299.2	2303.6	2312.3	2281.9	2294.9	2290.6	2279.7	2281.9
7.5°	2278.6	2306.8	2313.3	2301.4	2322.0	2332.8	2300.3	2312.3	2317.7	2310.1	2302.5
10°	2270.0	2294.9	2303.6	2301.4	2328.5	2345.9	2314.4	2348.0	2352.4	2352.4	2340.4
12.5°	2266.7	2294.9	2306.8	2316.6	2348.0	2366.5	2348.0	2380.5	2402.2	2401.1	2393.6
15°	2268.9	2300.3	2318.8	2335.0	2368.6	2391.4	2383.8	2433.7	2459.7	2467.3	2467.3
17.5°	2323.1	2361.0	2369.7	2387.0	2409.8	2444.5	2434.7	2498.7	2539.9	2552.9	2571.3
20°	2474.9	2504.1	2515.0	2506.3	2516.0	2537.7	2518.2	2580.0	2641.8	2676.5	2706.8
22.5°	2668.9	2690.6	2680.8	2672.2	2666.7	2672.2	2648.3	2689.5	2758.9	2808.7	2860.8
25°	2816.3	2864.0	2856.4	2832.6	2825.0	2831.5	2801.2	2852.1	2916.1	2968.1	3046.1
27.5°	2995.2	3024.5	3003.9	2995.2	3000.6	2999.5	2981.1	3029.9	3088.4	3153.5	3268.4
30°	3189.2	3214.2	3193.6	3184.9	3194.7	3201.2	3180.6	3266.2	3328.0	3398.5	3547.0
32.5°	3507.9	3567.6	3511.2	3398.5	3400.6	3410.4	3412.5	3527.5	3640.2	3695.5	3891.7
35°	3962.2	4009.9	3935.1	3798.5	3628.3	3621.8	3639.1	3810.4	4037.0	4288.4	4518.3
37.5°	4386.0	4455.4	4388.2	4228.8	4021.8	3971.9	3881.9	4085.7	4442.4	4983.3	5269.5
40°	4894.4	4946.5	4813.1	4674.4	4467.3	4396.9	4252.7	4382.8	4871.7	5708.5	5905.8
42.5°	5303.1	5334.5	5224.0	5078.7	4898.8	4845.6	4697.1	4709.1	5330.2	6343.8	6470.6
45°	5681.4	5715.0	5624.0	5500.4	5386.6	5322.6	5214.2	5272.8	5867.9	7013.7	6936.8
47.5°	5968.7	6002.3	5929.7	5841.9	5723.7	5680.4	5682.5	5892.8	6525.9	7549.2	7355.2
50°	6439.2	6426.2	6236.5	6141.1	6048.9	6071.7	6095.5	6394.7	7189.3	8008.9	7742.2
52.5°	7259.8	7195.8	6804.5	6555.2	6441.3	6480.4	6519.4	6917.2	7942.7	8428.4	8039.2
55°	8187.7	8122.7	7789.9	7256.5	6955.2	7018.1	6984.4	7434.3	8575.8	8831.6	8284.2
57.5°	8877.2	8984.5	8857.7	8567.1	7812.7	7730.3	7655.5	7956.8	9087.5	9234.9	8519.4
60°	9476.7	9626.2	9852.8	9773.7	9452.8	9238.2	8552.0	8567.1	9579.6	9514.6	8612.7
62.5°	10062.0	10149.8	10537.9	10623.6	11021.4	11175.3	10478.3	9356.3	10055.5	9708.6	8675.5
65°	9476.7	9589.4	10264.7	10888.1	12173.7	12379.7	12134.7	10785.1	10405.7	9823.5	8602.9
67.5°	8530.3	8598.6	9328.1	10462.0	12776.5	12962.9	12772.1	12096.8	10569.4	9788.9	8377.4
70°	7293.4	7400.7	8117.3	9637.1	12754.8	12854.5	12688.7	12255.0	10507.6	9589.4	7808.3
72.5°	6031.6	6092.3	6699.3	8215.9	12131.5	12214.9	12127.1	12012.2	10299.4	9033.3	6714.5
75°	4533.4	4546.5	5168.7	6488.0	10726.5	11162.3	11269.6	11593.8	9502.7	7743.3	4966.0
77.5°	3039.6	3168.6	3765.9	4958.4	8805.6	9502.7	10011.1	10247.4	7939.5	5779.0	2640.7
80°	1631.5	1664.0	2307.9	3518.8	6691.8	7358.4	7840.8	7845.2	5552.4	2862.9	589.7
82.5°	755.6	724.1	1162.1	2226.6	4635.3	4932.4	5255.4	4402.3	2223.4	488.9	150.7
85°	335.0	353.4	525.8	1085.1	2572.4	2870.5	2829.3	1949.1	390.3	132.3	92.1
87.5°	124.7	131.2	203.8	438.0	918.2	1001.7	900.8	375.1	50.9	46.6	28.2
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: P509936  
 CATALOG NUMBER: VERD-M-CA3-170-730-U-T4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1	2259.1
2.5°	2263.5	2263.5	2261.3	2232.0	2225.5	2211.4	2199.5	2208.2	2198.4	2204.9	2198.4
5°	2273.2	2267.8	2254.8	2220.1	2203.8	2172.4	2148.6	2154.0	2141.0	2141.0	2139.9
7.5°	2296.0	2285.1	2262.4	2207.1	2176.7	2131.2	2094.4	2082.4	2069.4	2054.2	2052.1
10°	2332.8	2317.7	2287.3	2211.4	2152.9	2092.2	2028.2	2003.3	1970.8	1946.9	1942.6
12.5°	2383.8	2361.0	2319.8	2227.7	2150.7	2054.2	1968.6	1919.8	1880.8	1846.1	1838.5
15°	2457.5	2434.7	2386.0	2260.2	2151.8	2018.5	1905.7	1824.4	1757.2	1724.7	1725.8
17.5°	2564.8	2548.6	2473.8	2328.5	2172.4	2000.0	1853.7	1724.7	1620.6	1566.4	1558.8
20°	2702.5	2691.7	2600.6	2418.5	2220.1	2003.3	1797.3	1618.5	1465.6	1347.5	1321.4
22.5°	2862.9	2846.7	2735.0	2496.5	2257.0	1994.6	1735.5	1501.4	1271.6	1117.6	1087.3
25°	3041.8	3033.1	2858.6	2564.8	2261.3	1957.8	1646.7	1349.6	1061.3	896.5	870.5
27.5°	3270.5	3219.6	2970.3	2601.7	2251.5	1885.1	1519.8	1141.5	843.4	729.6	701.4
30°	3521.0	3418.0	3078.7	2629.9	2203.8	1769.1	1338.8	900.8	627.7	526.8	512.7
32.5°	3798.5	3644.5	3180.6	2627.7	2119.3	1590.3	1103.5	625.5	423.9	382.7	368.6
35°	4300.4	4039.1	3303.1	2591.9	1977.3	1377.8	779.4	407.6	314.4	289.4	286.2
37.5°	4997.4	4554.0	3467.8	2523.6	1794.1	1130.7	508.4	278.6	268.8	269.9	268.8
40°	5568.7	5128.6	3696.6	2420.7	1563.2	807.6	304.6	248.2	253.7	256.9	258.0
42.5°	6128.1	5596.9	3979.5	2291.7	1321.4	524.7	247.2	237.4	233.1	238.5	240.7
45°	6577.9	6005.6	4246.2	2141.0	1038.5	310.0	239.6	220.1	212.5	214.6	217.9
47.5°	6937.8	6330.8	4406.6	1965.4	758.8	234.2	233.1	204.9	194.0	191.9	190.8
50°	7277.1	6609.4	4509.6	1752.9	483.5	225.5	215.7	187.5	174.5	172.4	172.4
52.5°	7508.0	6791.5	4544.3	1501.4	288.4	220.1	203.8	173.4	156.1	159.4	161.5
55°	7733.5	6975.8	4472.7	1174.0	221.1	206.0	190.8	156.1	142.0	155.0	159.4
57.5°	7840.8	7002.9	4311.2	816.3	214.6	186.5	172.4	139.8	129.0	136.6	136.6
60°	7927.6	6984.4	4085.7	517.1	209.2	173.4	157.2	126.8	113.8	109.5	106.2
62.5°	7870.1	6910.7	3632.6	337.1	194.0	158.3	143.1	117.1	98.6	86.7	85.6
65°	7747.6	6650.6	2899.8	265.6	180.0	150.7	130.1	105.2	86.7	72.6	71.5
67.5°	7386.6	6017.5	1876.5	220.1	172.4	145.3	120.3	97.6	77.0	62.9	61.8
70°	6521.6	4860.8	575.6	197.3	178.9	139.8	118.2	88.9	68.3	55.3	53.1
72.5°	5156.8	3247.8	213.6	163.7	153.9	134.4	114.9	80.2	58.5	46.6	44.4
75°	3321.5	1061.3	181.0	126.8	131.2	127.9	106.2	73.7	49.9	37.9	36.9
77.5°	940.9	222.2	164.8	93.2	116.0	123.6	93.2	61.8	44.4	32.5	31.4
80°	197.3	158.3	150.7	66.1	86.7	80.2	62.9	47.7	42.3	28.2	28.2
82.5°	129.0	125.7	129.0	45.5	57.5	58.5	49.9	41.2	36.9	26.0	26.0
85°	91.1	114.9	61.8	32.5	27.1	24.9	29.3	35.8	32.5	21.7	21.7
87.5°	31.4	18.4	13.0	13.0	11.9	11.9	14.1	16.3	17.3	17.3	16.3
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)