

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: P509976

Luminaire Tested: **VERD-M-CA3-180-727-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509976  
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-CA3-180-727-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19432 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

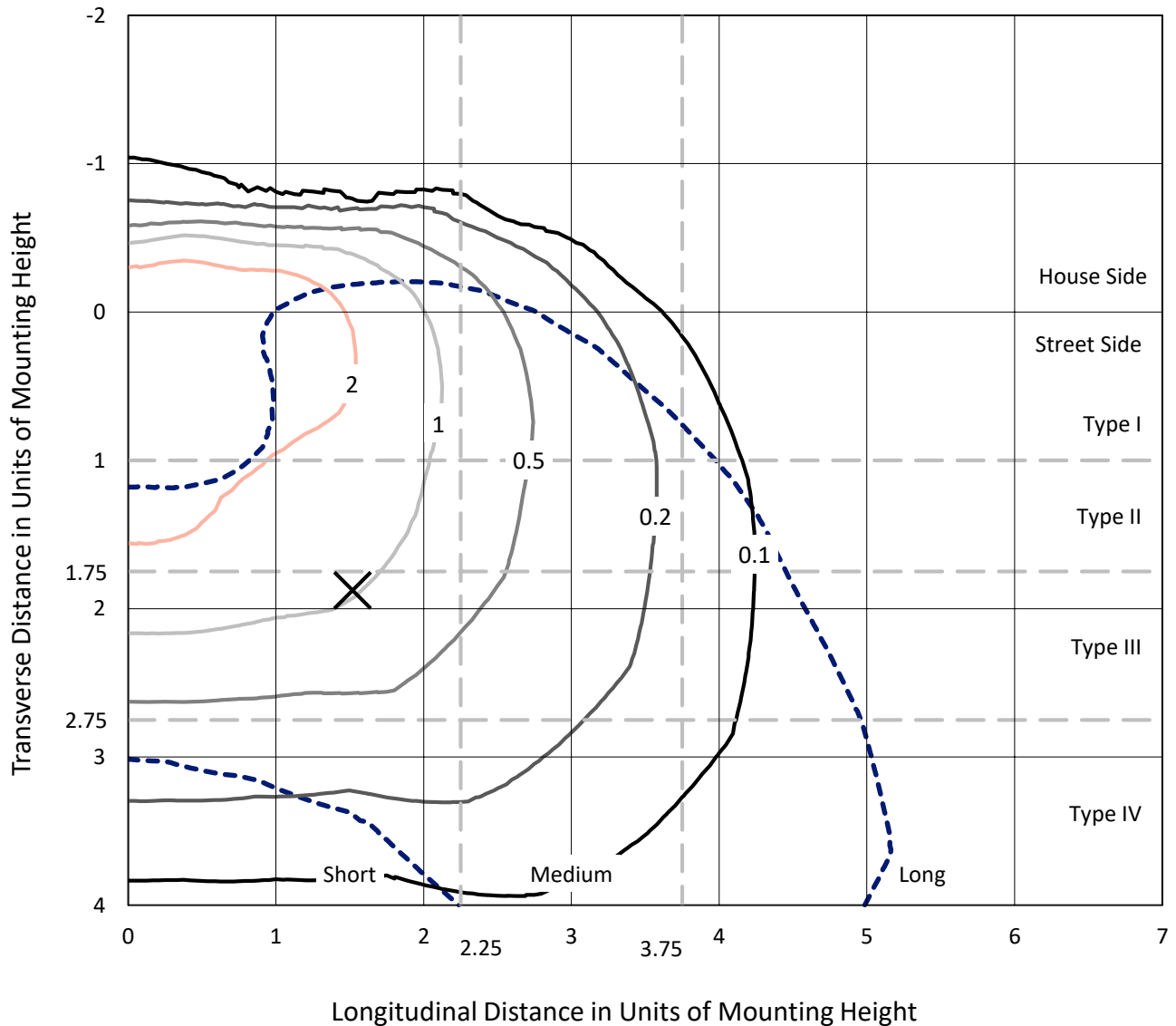
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

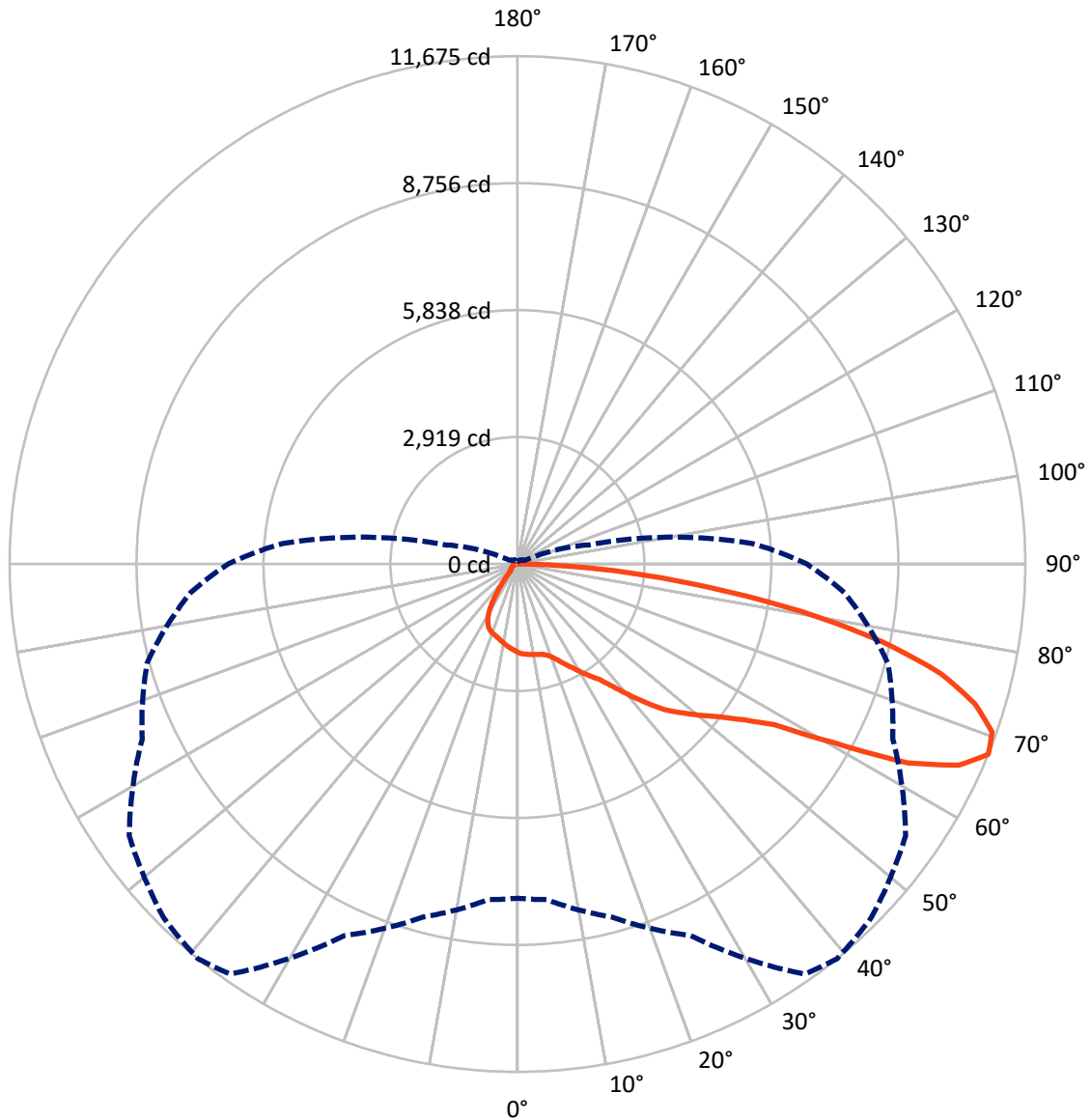
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3120.3	0.0	3120.3
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	16311.7	0.0	16311.7
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	19432.0	0.0	19432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.1	1.0
10°-20°	571.7	2.9
20°-30°	1012.9	5.2
30°-40°	1622.4	8.3
40°-50°	2602.6	13.4
50°-60°	3804.2	19.6
60°-70°	5069.3	26.1
70°-80°	3804.1	19.6
80°-90°	752.7	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°	19432.0	100.0
0°-180°	19432.0	100.0

**Coefficient of Utilization**



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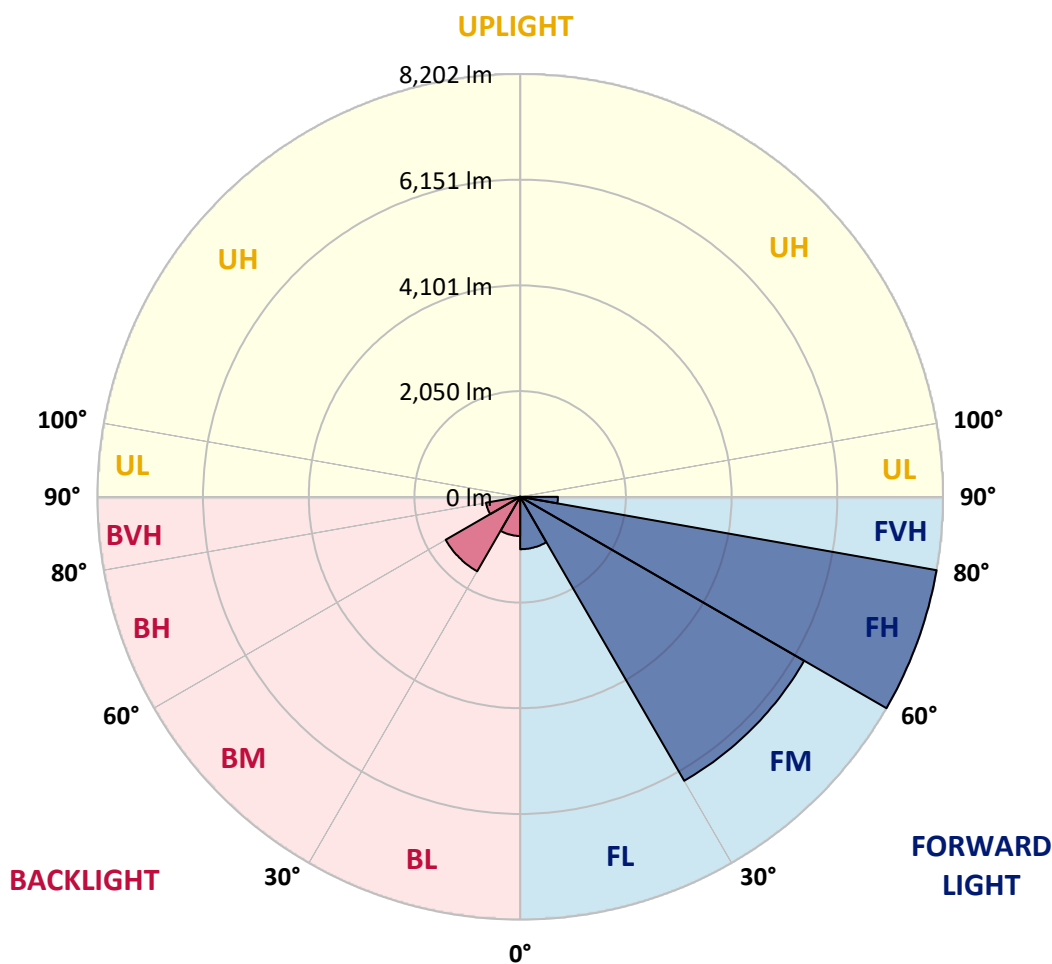
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1016.9	5.2			
FM	(30°-60°)	6360.3	32.7			
FH	(60°-80°)	8201.6	42.2			G4/12000
FVH	(80°-90°)	732.9	3.8			G4/750
BL	(0°-30°)	759.8	3.9	B2/1000		
BM	(30°-60°)	1668.9	8.6	B2/2500		
BH	(60°-80°)	671.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	19.7	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7
2.5°	2036.7	2064.0	2064.0	2056.2	2061.1	2065.0	2035.7	2043.5	2040.6	2039.6	2045.5
5°	2052.3	2082.6	2080.6	2070.9	2074.8	2082.6	2055.2	2067.0	2063.1	2053.3	2055.2
7.5°	2052.3	2077.7	2083.6	2072.8	2091.4	2101.1	2071.8	2082.6	2087.5	2080.6	2073.8
10°	2044.5	2067.0	2074.8	2072.8	2097.2	2112.8	2084.5	2114.8	2118.7	2118.7	2108.0
12.5°	2041.6	2067.0	2077.7	2086.5	2114.8	2131.4	2114.8	2144.1	2163.6	2162.6	2155.8
15°	2043.5	2071.8	2088.4	2103.1	2133.4	2153.9	2147.0	2191.9	2215.4	2222.2	2222.2
17.5°	2092.3	2126.5	2134.3	2149.9	2170.5	2201.7	2192.9	2250.5	2287.6	2299.3	2315.9
20°	2229.0	2255.4	2265.2	2257.3	2266.1	2285.7	2268.1	2323.7	2379.4	2410.6	2438.0
22.5°	2403.8	2423.3	2414.5	2406.7	2401.8	2406.7	2385.3	2422.4	2484.8	2529.8	2576.6
25°	2536.6	2579.5	2572.7	2551.2	2544.4	2550.3	2522.9	2568.8	2626.4	2673.3	2743.6
27.5°	2697.7	2724.0	2705.5	2697.7	2702.6	2701.6	2685.0	2728.9	2781.7	2840.2	2943.7
30°	2872.5	2894.9	2876.4	2868.6	2877.3	2883.2	2864.6	2941.8	2997.4	3060.9	3194.7
32.5°	3159.5	3213.2	3162.4	3060.9	3062.8	3071.6	3073.6	3177.1	3278.6	3328.4	3505.1
35°	3568.6	3611.6	3544.2	3421.2	3267.9	3262.0	3277.6	3431.9	3636.0	3862.5	4069.5
37.5°	3950.4	4012.8	3952.3	3808.8	3622.3	3577.4	3496.4	3679.9	4001.1	4488.3	4746.1
40°	4408.3	4455.1	4335.0	4210.1	4023.6	3960.1	3830.3	3947.4	4387.8	5141.5	5319.2
42.5°	4776.4	4804.7	4705.1	4574.3	4412.2	4364.3	4230.6	4241.3	4800.8	5713.7	5827.9
45°	5117.1	5147.4	5065.4	4954.1	4851.5	4793.9	4696.3	4749.0	5285.0	6317.1	6247.7
47.5°	5375.8	5406.1	5340.7	5261.6	5155.2	5116.1	5118.1	5307.5	5877.7	6799.4	6624.6
50°	5799.6	5787.9	5617.0	5531.1	5448.1	5468.6	5490.1	5759.6	6475.2	7213.4	6973.2
52.5°	6538.7	6481.1	6128.6	5904.1	5801.5	5836.7	5871.8	6230.2	7153.8	7591.2	7240.7
55°	7374.5	7315.9	7016.1	6535.8	6264.3	6321.0	6290.7	6695.9	7724.0	7954.4	7461.4
57.5°	7995.4	8092.1	7977.9	7716.2	7036.6	6962.4	6895.1	7166.5	8184.8	8317.6	7673.2
60°	8535.4	8670.1	8874.2	8802.9	8513.9	8320.6	7702.5	7716.2	8628.1	8569.5	7757.2
62.5°	9062.6	9141.7	9491.2	9568.3	9926.7	10065.3	9437.5	8427.0	9056.7	8744.3	7813.8
65°	8535.4	8636.9	9245.2	9806.6	10964.5	11150.1	10929.4	9713.8	9372.1	8847.8	7748.4
67.5°	7683.0	7744.5	8401.6	9422.9	11507.4	11675.3	11503.5	10895.2	9519.5	8816.5	7545.3
70°	6569.0	6665.6	7311.0	8679.9	11487.9	11577.7	11428.3	11037.8	9463.9	8636.9	7032.7
72.5°	5432.5	5487.2	6033.9	7399.8	10926.5	11001.6	10922.6	10819.1	9276.4	8136.0	6047.6
75°	4083.1	4094.9	4655.3	5843.5	9661.1	10053.6	10150.3	10442.2	8558.8	6974.2	4472.7
77.5°	2737.7	2853.9	3391.9	4465.9	7931.0	8558.8	9016.7	9229.5	7150.9	5205.0	2378.4
80°	1469.4	1498.7	2078.7	3169.3	6027.1	6627.5	7062.0	7065.9	5000.9	2578.6	531.1
82.5°	680.5	652.2	1046.7	2005.4	4174.9	4442.4	4733.4	3965.0	2002.5	440.3	135.7
85°	301.7	318.3	473.5	977.3	2316.9	2585.4	2548.3	1755.5	351.5	119.1	83.0
87.5°	112.3	118.1	183.6	394.5	827.0	902.2	811.4	337.8	45.9	42.0	25.4
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°	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7	2034.7
2.5°	2038.6	2038.6	2036.7	2010.3	2004.5	1991.8	1981.0	1988.8	1980.1	1985.9	1980.1
5°	2047.4	2042.5	2030.8	1999.6	1984.9	1956.6	1935.1	1940.0	1928.3	1928.3	1927.3
7.5°	2067.9	2058.2	2037.7	1987.9	1960.5	1919.5	1886.3	1875.6	1863.9	1850.2	1848.3
10°	2101.1	2087.5	2060.1	1991.8	1939.1	1884.4	1826.8	1804.3	1775.0	1753.5	1749.6
12.5°	2147.0	2126.5	2089.4	2006.4	1937.1	1850.2	1773.1	1729.1	1694.0	1662.7	1655.9
15°	2213.4	2192.9	2149.0	2035.7	1938.1	1818.0	1716.4	1643.2	1582.7	1553.4	1554.4
17.5°	2310.1	2295.4	2228.1	2097.2	1956.6	1801.4	1669.6	1553.4	1459.7	1410.8	1404.0
20°	2434.1	2424.3	2342.3	2178.3	1999.6	1804.3	1618.8	1457.7	1320.0	1213.6	1190.2
22.5°	2578.6	2563.9	2463.4	2248.6	2032.8	1796.5	1563.2	1352.3	1145.3	1006.6	979.3
25°	2739.7	2731.9	2574.7	2310.1	2036.7	1763.3	1483.1	1215.6	955.9	807.5	784.0
27.5°	2945.7	2899.8	2675.2	2343.3	2027.9	1697.9	1368.9	1028.1	759.6	657.1	631.7
30°	3171.2	3078.5	2772.9	2368.7	1984.9	1593.4	1205.8	811.4	565.3	474.5	461.8
32.5°	3421.2	3282.5	2864.6	2366.7	1908.8	1432.3	993.9	563.4	381.8	344.7	332.0
35°	3873.2	3637.9	2975.0	2334.5	1780.9	1241.0	702.0	367.1	283.1	260.7	257.8
37.5°	4501.0	4101.7	3123.4	2273.0	1615.9	1018.3	457.9	250.9	242.1	243.1	242.1
40°	5015.6	4619.2	3329.4	2180.2	1407.9	727.4	274.4	223.6	228.5	231.4	232.4
42.5°	5519.4	5041.0	3584.2	2064.0	1190.2	472.6	222.6	213.8	209.9	214.8	216.8
45°	5924.6	5409.0	3824.4	1928.3	935.4	279.2	215.8	198.2	191.4	193.3	196.2
47.5°	6248.7	5702.0	3968.9	1770.1	683.5	210.9	209.9	184.5	174.8	172.8	171.8
50°	6554.3	5952.9	4061.7	1578.8	435.5	203.1	194.3	168.9	157.2	155.2	155.2
52.5°	6762.3	6116.9	4092.9	1352.3	259.7	198.2	183.6	156.2	140.6	143.5	145.5
55°	6965.4	6282.9	4028.5	1057.4	199.2	185.5	171.8	140.6	127.9	139.6	143.5
57.5°	7062.0	6307.3	3883.0	735.2	193.3	167.9	155.2	126.0	116.2	123.0	123.0
60°	7140.1	6290.7	3679.9	465.7	188.4	156.2	141.6	114.2	102.5	98.6	95.7
62.5°	7088.4	6224.3	3271.8	303.6	174.8	142.5	128.9	105.4	88.8	78.1	77.1
65°	6978.1	5990.0	2611.8	239.2	162.1	135.7	117.2	94.7	78.1	65.4	64.4
67.5°	6652.9	5419.8	1690.1	198.2	155.2	130.8	108.4	87.9	69.3	56.6	55.7
70°	5873.8	4378.0	518.4	177.7	161.1	126.0	106.4	80.1	61.5	49.8	47.8
72.5°	4644.6	2925.2	192.3	147.4	138.6	121.1	103.5	72.3	52.7	42.0	40.0
75°	2991.6	955.9	163.1	114.2	118.1	115.2	95.7	66.4	44.9	34.2	33.2
77.5°	847.5	200.2	148.4	84.0	104.5	111.3	84.0	55.7	40.0	29.3	28.3
80°	177.7	142.5	135.7	59.6	78.1	72.3	56.6	43.0	38.1	25.4	25.4
82.5°	116.2	113.3	116.2	41.0	51.7	52.7	44.9	37.1	33.2	23.4	23.4
85°	82.0	103.5	55.7	29.3	24.4	22.5	26.4	32.2	29.3	19.5	19.5
87.5°	28.3	16.6	11.7	11.7	10.7	10.7	12.7	14.6	15.6	15.6	14.6
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)