

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: P509864

Luminaire Tested: **VERD-M-CA3-150-760-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509864  
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-CA3-150-760-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 940mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19837 lumens  
Efficiency: N/A  
Efficacy: 129.7 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

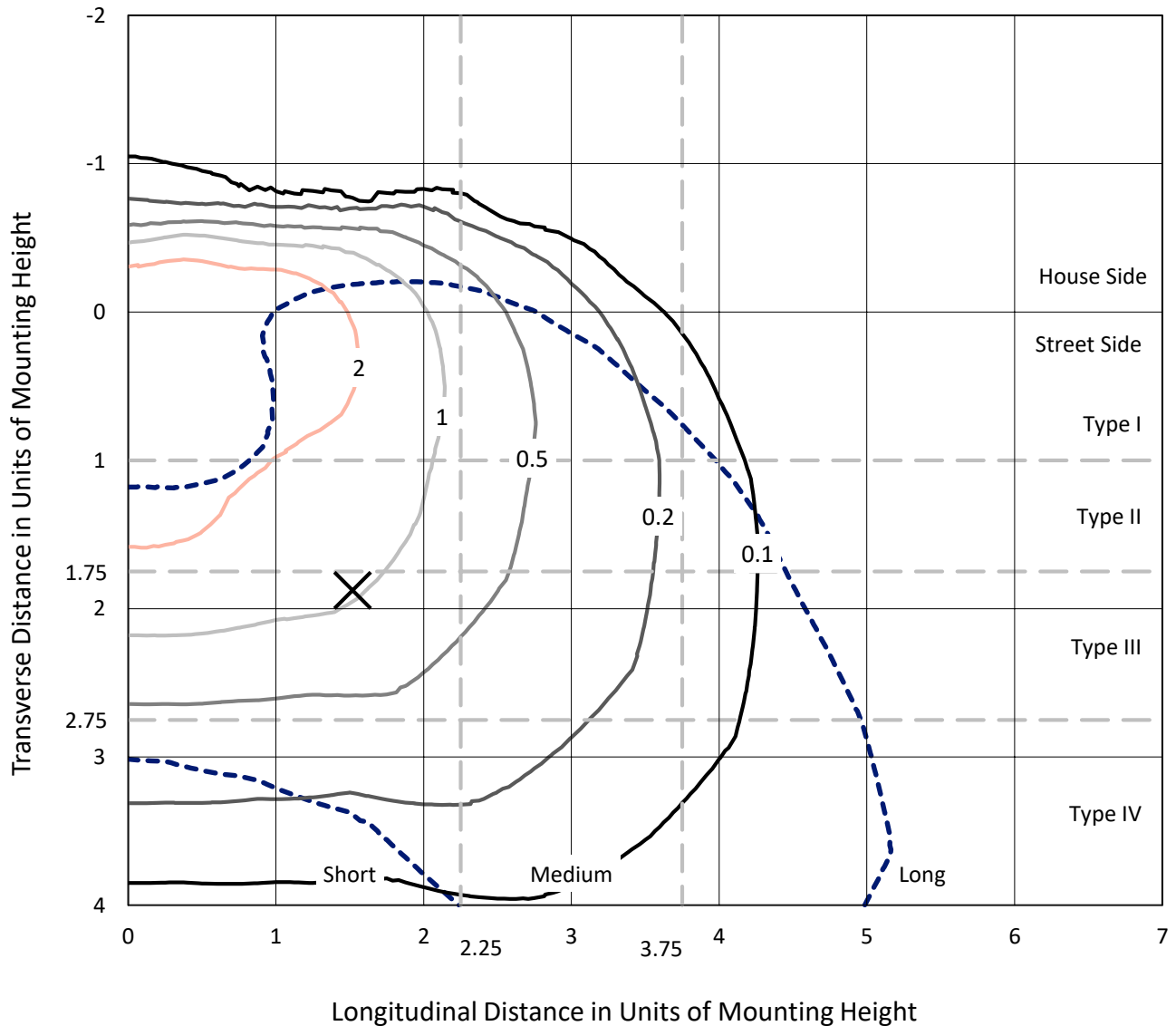
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

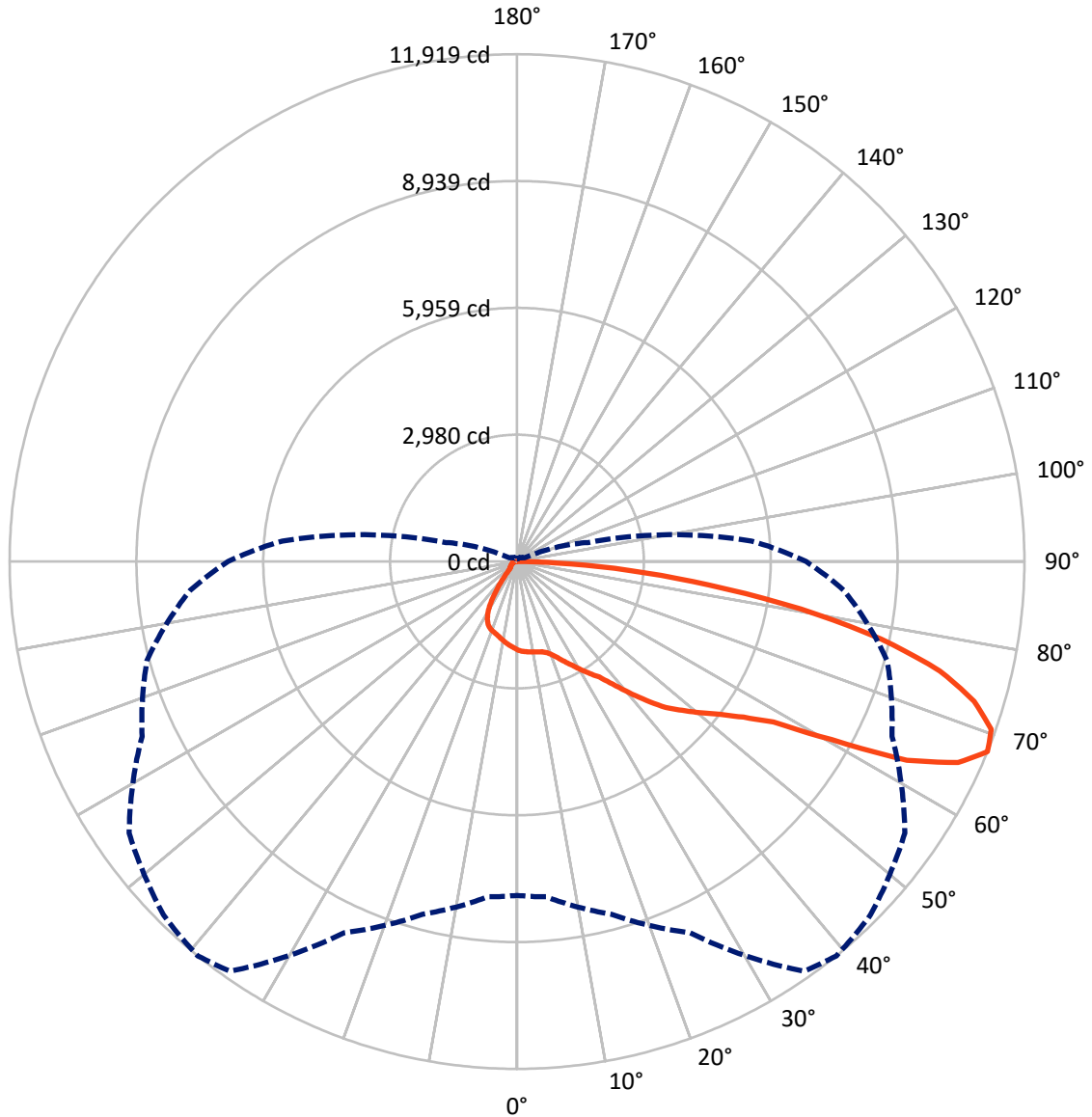
✕ Max cd  
 - - - 1/2 Max cd



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	3185.3	0.0	3185.3
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	16651.7	0.0	16651.7
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	19837.0	0.0	19837.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.1	1.0
10°-20°	583.6	2.9
20°-30°	1034.0	5.2
30°-40°	1656.2	8.3
40°-50°	2656.8	13.4
50°-60°	3883.5	19.6
60°-70°	5175.0	26.1
70°-80°	3883.4	19.6
80°-90°	768.3	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°	19837.0	100.0
0°-180°	19837.0	100.0

**Coefficient of Utilization**



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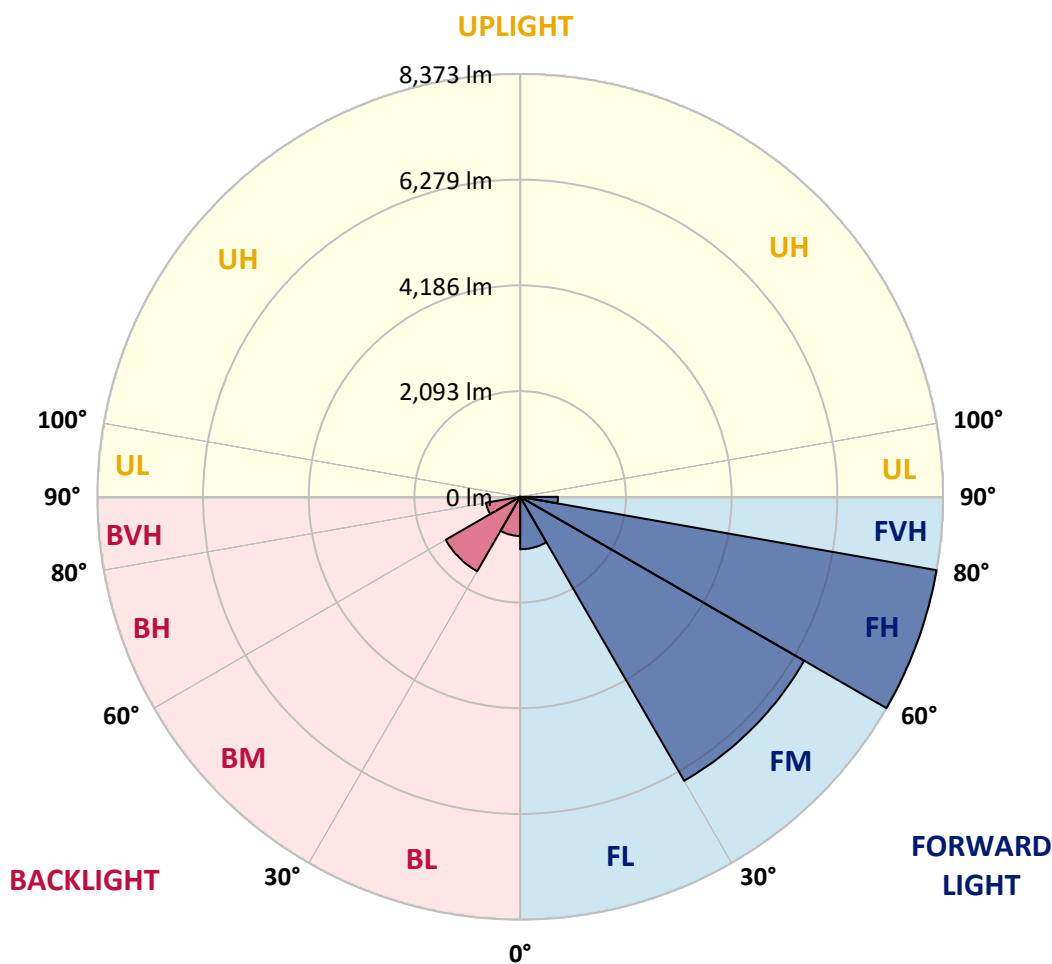
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1038.1	5.2			
FM	(30°-60°)	6492.8	32.7			
FH	(60°-80°)	8372.5	42.2			G4/12000
FVH	(80°-90°)	748.2	3.8			G4/750
BL	(0°-30°)	775.7	3.9	B2/1000		
BM	(30°-60°)	1703.7	8.6	B2/2500		
BH	(60°-80°)	685.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	20.1	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°	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1
2.5°	2079.1	2107.0	2107.0	2099.1	2104.1	2108.0	2078.1	2086.1	2083.1	2082.1	2088.1
5°	2095.1	2126.0	2124.0	2114.0	2118.0	2126.0	2098.1	2110.0	2106.1	2096.1	2098.1
7.5°	2095.1	2121.0	2127.0	2116.0	2135.0	2144.9	2115.0	2126.0	2131.0	2124.0	2117.0
10°	2087.1	2110.0	2118.0	2116.0	2140.9	2156.9	2128.0	2158.9	2162.9	2162.9	2151.9
12.5°	2084.1	2110.0	2121.0	2130.0	2158.9	2175.8	2158.9	2188.8	2208.7	2207.7	2200.7
15°	2086.1	2115.0	2132.0	2146.9	2177.8	2198.7	2191.8	2237.6	2261.5	2268.5	2268.5
17.5°	2136.0	2170.8	2178.8	2194.8	2215.7	2247.6	2238.6	2297.4	2335.3	2347.3	2364.2
20°	2275.5	2302.4	2312.4	2304.4	2313.4	2333.3	2315.4	2372.2	2429.0	2460.9	2488.8
22.5°	2453.9	2473.8	2464.9	2456.9	2451.9	2456.9	2435.0	2472.8	2536.6	2582.5	2630.3
25°	2589.5	2633.3	2626.3	2604.4	2597.4	2603.4	2575.5	2622.3	2681.2	2729.0	2800.8
27.5°	2753.9	2780.8	2761.9	2753.9	2758.9	2757.9	2741.0	2785.8	2839.6	2899.4	3005.1
30°	2932.3	2955.2	2936.3	2928.3	2937.3	2943.3	2924.3	3003.1	3059.9	3124.7	3261.2
32.5°	3225.4	3280.2	3228.3	3124.7	3126.7	3135.7	3137.6	3243.3	3347.0	3397.8	3578.2
35°	3643.0	3686.8	3618.1	3492.5	3336.0	3330.0	3346.0	3503.4	3711.8	3943.0	4154.3
37.5°	4032.7	4096.5	4034.7	3888.2	3697.8	3651.9	3569.2	3756.6	4084.5	4581.9	4845.0
40°	4500.1	4548.0	4425.4	4297.8	4107.4	4042.7	3910.1	4029.7	4479.2	5248.7	5430.1
42.5°	4875.9	4904.8	4803.2	4669.6	4504.1	4455.3	4318.7	4329.7	4900.8	5832.8	5949.4
45°	5223.8	5254.7	5170.9	5057.3	4952.7	4893.9	4794.2	4848.0	5395.2	6448.7	6378.0
47.5°	5487.9	5518.8	5452.0	5371.3	5262.6	5222.8	5224.8	5418.1	6000.2	6941.1	6762.7
50°	5920.5	5908.5	5734.1	5646.4	5561.6	5582.6	5604.5	5879.6	6610.2	7363.7	7118.5
52.5°	6675.0	6616.2	6256.4	6027.1	5922.5	5958.3	5994.2	6360.0	7302.9	7749.4	7391.6
55°	7528.2	7468.4	7162.4	6672.0	6394.9	6452.7	6421.8	6835.4	7885.0	8120.2	7616.9
57.5°	8162.1	8260.7	8144.1	7877.0	7183.3	7107.5	7038.8	7315.9	8355.4	8491.0	7833.2
60°	8713.2	8850.8	9059.1	8986.3	8691.3	8494.0	7863.1	7877.0	8807.9	8748.1	7918.9
62.5°	9251.5	9332.2	9689.0	9767.8	10133.6	10275.1	9634.2	8602.6	9245.5	8926.5	7976.7
65°	8713.2	8816.9	9437.9	10011.0	11193.1	11382.4	11157.2	9916.3	9567.4	9032.2	7909.9
67.5°	7843.1	7905.9	8576.7	9619.3	11747.2	11918.7	11743.2	11122.3	9717.9	9000.3	7702.6
70°	6705.9	6804.5	7463.4	8860.8	11727.3	11819.0	11666.5	11267.8	9661.1	8816.9	7179.3
72.5°	5545.7	5601.5	6159.7	7554.1	11154.2	11230.9	11150.2	11044.6	9469.8	8305.6	6173.6
75°	4168.2	4180.2	4752.3	5965.3	9862.5	10263.1	10361.8	10659.8	8737.2	7119.5	4565.9
77.5°	2794.8	2913.4	3462.6	4559.0	8096.3	8737.2	9204.6	9421.9	7299.9	5313.5	2428.0
80°	1500.0	1530.0	2122.0	3235.3	6152.7	6765.7	7209.2	7213.2	5105.2	2632.3	542.2
82.5°	694.7	665.8	1068.5	2047.2	4261.9	4535.0	4832.1	4047.6	2044.3	449.5	138.5
85°	308.0	324.9	483.4	997.7	2365.2	2639.3	2601.4	1792.1	358.8	121.6	84.7
87.5°	114.6	120.6	187.4	402.7	844.2	921.0	828.3	344.9	46.8	42.9	25.9
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°	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1
2.5°	2081.1	2081.1	2079.1	2052.2	2046.2	2033.3	2022.3	2030.3	2021.3	2027.3	2021.3
5°	2090.1	2085.1	2073.2	2041.3	2026.3	1997.4	1975.5	1980.5	1968.5	1968.5	1967.5
7.5°	2111.0	2101.1	2080.1	2029.3	2001.4	1959.5	1925.6	1914.7	1902.7	1888.8	1886.8
10°	2144.9	2131.0	2103.1	2033.3	1979.5	1923.7	1864.8	1841.9	1812.0	1790.1	1786.1
12.5°	2191.8	2170.8	2133.0	2048.2	1977.5	1888.8	1810.0	1765.2	1729.3	1697.4	1690.4
15°	2259.5	2238.6	2193.8	2078.1	1978.5	1855.9	1752.2	1677.5	1615.7	1585.8	1586.8
17.5°	2358.2	2343.3	2274.5	2140.9	1997.4	1838.9	1704.4	1585.8	1490.1	1440.2	1433.3
20°	2484.8	2474.8	2391.1	2223.7	2041.3	1841.9	1652.5	1488.1	1347.6	1238.9	1215.0
22.5°	2632.3	2617.4	2514.7	2295.4	2075.2	1833.9	1595.7	1380.4	1169.1	1027.6	999.7
25°	2796.8	2788.8	2628.3	2358.2	2079.1	1800.1	1514.0	1240.9	975.8	824.3	800.4
27.5°	3007.1	2960.2	2731.0	2392.1	2070.2	1733.3	1397.4	1049.5	775.4	670.8	644.9
30°	3237.3	3142.6	2830.7	2418.0	2026.3	1626.6	1230.9	828.3	577.1	484.4	471.4
32.5°	3492.5	3350.9	2924.3	2416.0	1948.6	1462.2	1014.7	575.1	389.7	351.8	338.9
35°	3954.0	3713.7	3037.0	2383.1	1818.0	1266.8	716.6	374.8	289.0	266.1	263.1
37.5°	4594.8	4187.2	3188.5	2320.3	1649.6	1039.6	467.5	256.2	247.2	248.2	247.2
40°	5120.1	4715.4	3398.8	2225.7	1437.3	742.5	280.1	228.2	233.2	236.2	237.2
42.5°	5634.4	5146.0	3658.9	2107.0	1215.0	482.4	227.3	218.3	214.3	219.3	221.3
45°	6048.0	5521.8	3904.1	1968.5	954.8	285.1	220.3	202.3	195.4	197.3	200.3
47.5°	6379.0	5820.8	4051.6	1807.0	697.7	215.3	214.3	188.4	178.4	176.4	175.4
50°	6690.9	6076.9	4146.3	1611.7	444.5	207.3	198.3	172.4	160.5	158.5	158.5
52.5°	6903.2	6244.4	4178.2	1380.4	265.1	202.3	187.4	159.5	143.5	146.5	148.5
55°	7110.5	6413.8	4112.4	1079.4	203.3	189.4	175.4	143.5	130.6	142.5	146.5
57.5°	7209.2	6438.8	3963.9	750.5	197.3	171.4	158.5	128.6	118.6	125.6	125.6
60°	7288.9	6421.8	3756.6	475.4	192.4	159.5	144.5	116.6	104.7	100.7	97.7
62.5°	7236.1	6354.0	3340.0	310.0	178.4	145.5	131.6	107.6	90.7	79.7	78.7
65°	7123.5	6114.8	2666.2	244.2	165.5	138.5	119.6	96.7	79.7	66.8	65.8
67.5°	6791.6	5532.7	1725.3	202.3	158.5	133.6	110.6	89.7	70.8	57.8	56.8
70°	5996.2	4469.3	529.3	181.4	164.5	128.6	108.6	81.7	62.8	50.8	48.8
72.5°	4741.4	2986.1	196.4	150.5	141.5	123.6	105.7	73.8	53.8	42.9	40.9
75°	3053.9	975.8	166.5	116.6	120.6	117.6	97.7	67.8	45.8	34.9	33.9
77.5°	865.1	204.3	151.5	85.7	106.6	113.6	85.7	56.8	40.9	29.9	28.9
80°	181.4	145.5	138.5	60.8	79.7	73.8	57.8	43.9	38.9	25.9	25.9
82.5°	118.6	115.6	118.6	41.9	52.8	53.8	45.8	37.9	33.9	23.9	23.9
85°	83.7	105.7	56.8	29.9	24.9	22.9	26.9	32.9	29.9	19.9	19.9
87.5°	28.9	16.9	12.0	12.0	11.0	11.0	13.0	15.0	15.9	15.9	15.0
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)