

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: P233868

Luminaire Tested: **VERD-G-C02H-D-U-T4-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C02H-D-U-T4-8027  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1370mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16557 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 155  
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: 28.75 FT

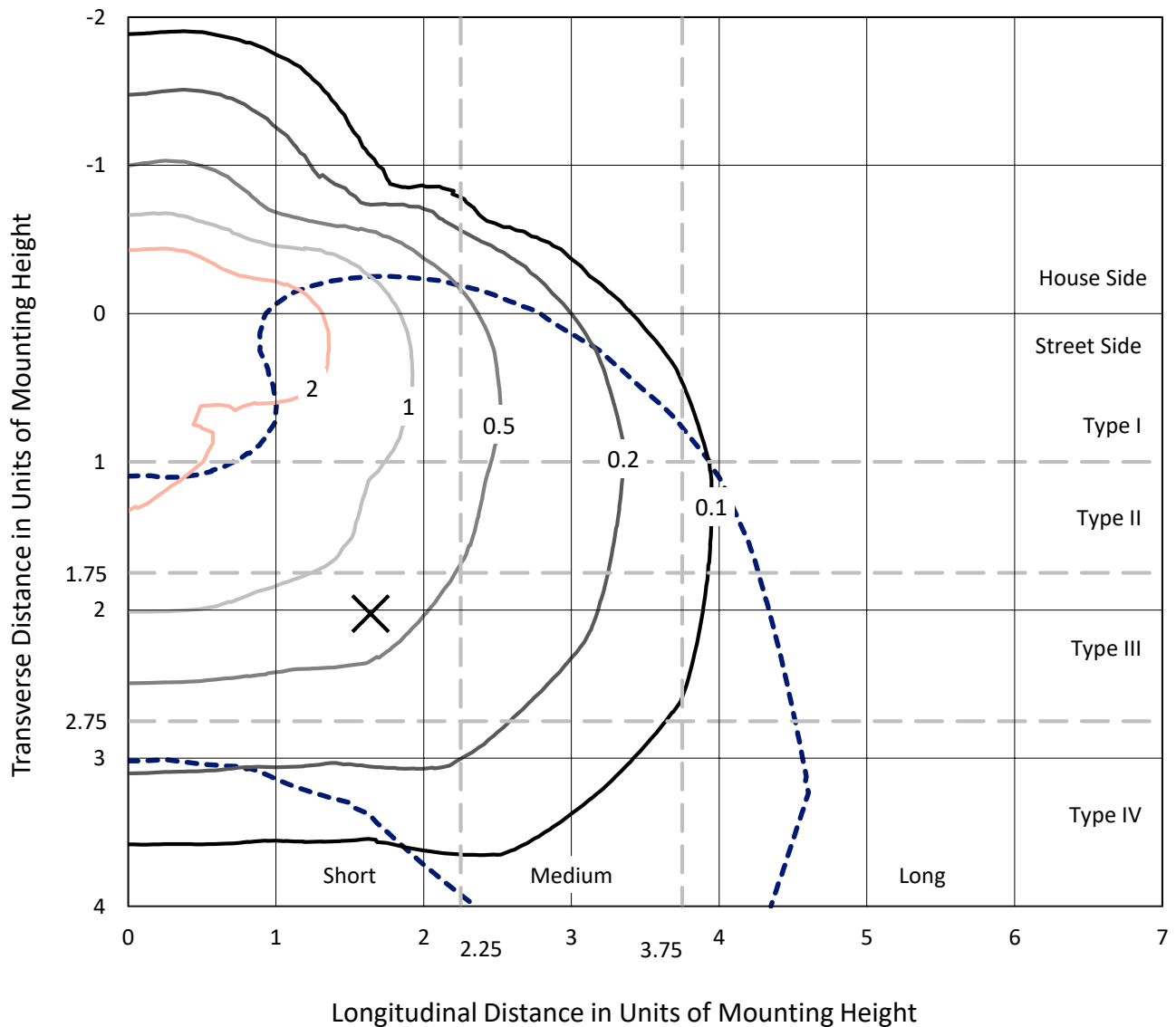


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

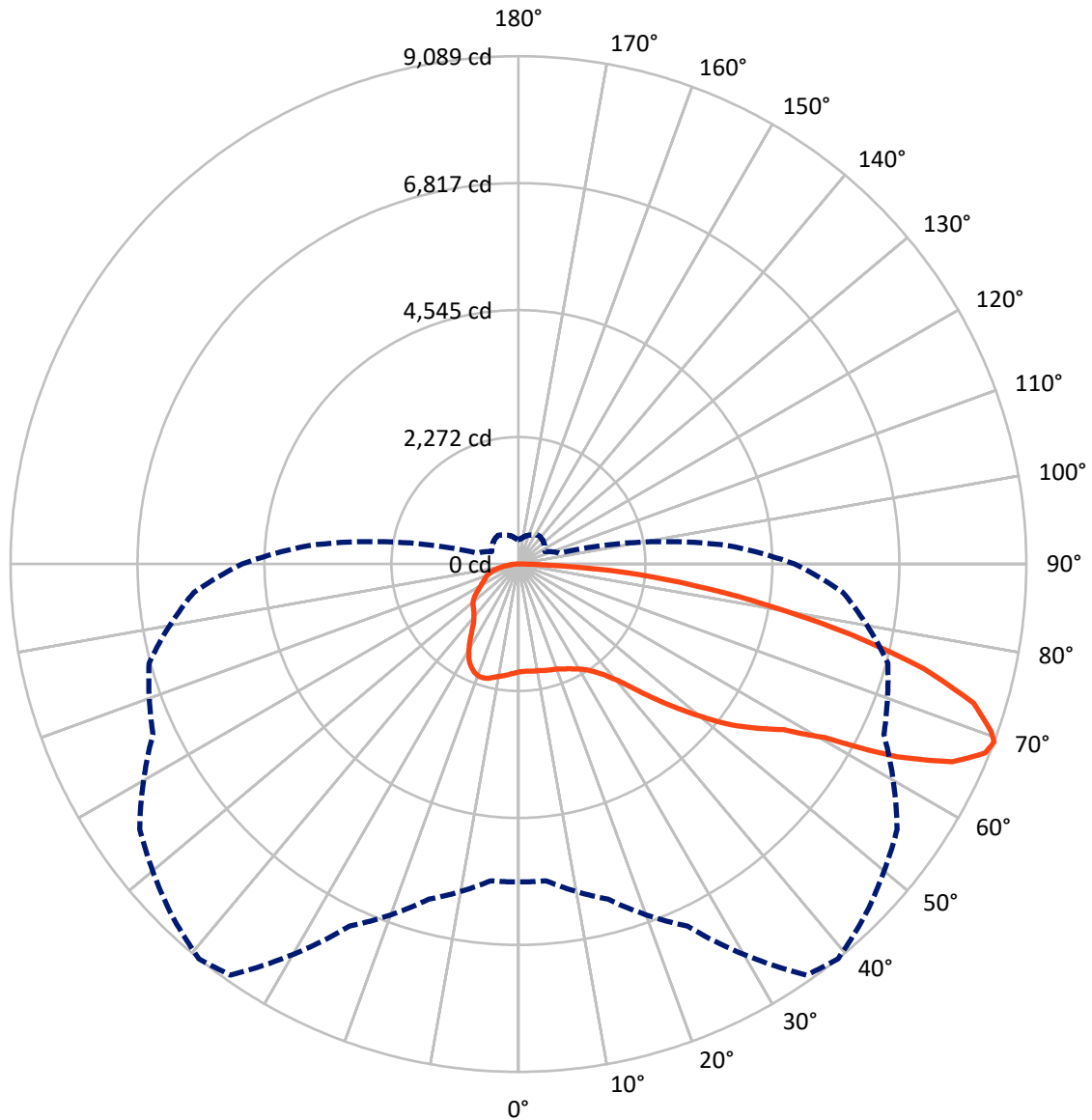


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3881.3	0.0	3881.3
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	12675.7	0.0	12675.7
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	16557.0	0.0	16557.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.4	1.1
10°-20°	579.3	3.5
20°-30°	975.1	5.9
30°-40°	1412.7	8.5
40°-50°	2283.6	13.8
50°-60°	3343.2	20.2
60°-70°	4184.5	25.3
70°-80°	2991.4	18.1
80°-90°	599.8	3.6
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°	16557.0	100.0
0°-180°	16557.0	100.0



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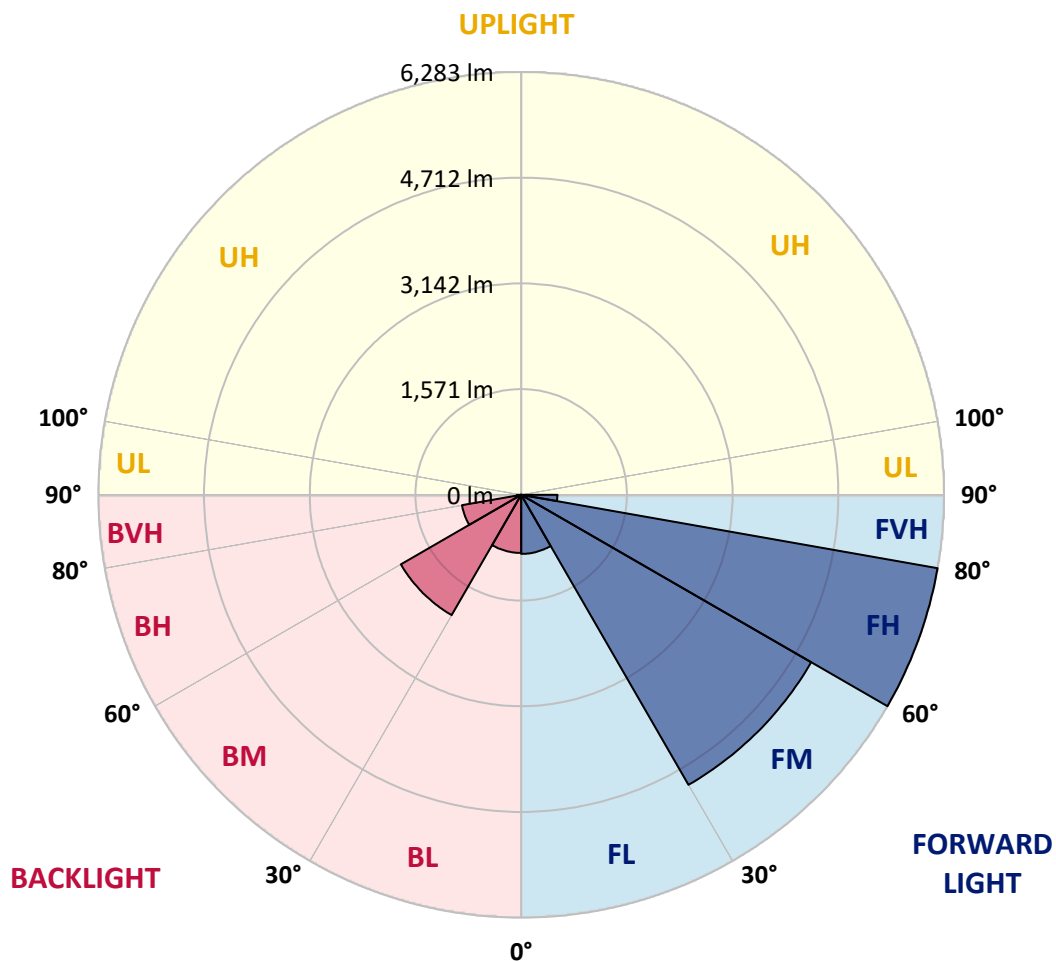
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.4	5.3			
FM	(30°-60°)	4975.6	30.1			
FH	(60°-80°)	6283.3	37.9			G3/7500
FVH	(80°-90°)	538.5	3.3			G4/750
BL	(0°-30°)	863.4	5.2	B2/1000		
BM	(30°-60°)	2064.0	12.5	B2/2500		
BH	(60°-80°)	892.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	61.3	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6
2.5°	1962.1	1959.1	1953.0	1928.6	1925.5	1924.0	1927.0	1917.9	1916.4	1919.4	1916.4
5°	1963.7	1960.6	1953.0	1931.6	1928.6	1925.5	1927.0	1919.4	1920.9	1928.6	1928.6
7.5°	1966.7	1963.7	1956.0	1933.1	1939.2	1936.2	1942.3	1931.6	1931.6	1937.7	1939.2
10°	1959.1	1957.6	1953.0	1936.2	1945.4	1939.2	1945.4	1946.9	1953.0	1957.6	1956.0
12.5°	1939.2	1939.2	1939.2	1931.6	1957.6	1956.0	1966.7	1977.4	1992.7	2000.3	2004.9
15°	1927.0	1925.5	1936.2	1934.7	1966.7	1971.3	1989.6	2017.1	2039.9	2059.8	2065.9
17.5°	1939.2	1939.2	1953.0	1949.9	1982.0	1985.0	2004.9	2044.5	2082.7	2120.8	2137.6
20°	1953.0	1954.5	1971.3	1975.9	2006.4	2004.9	2024.7	2073.5	2125.4	2181.8	2210.8
22.5°	1995.7	1994.2	2007.9	1998.8	2033.8	2039.9	2056.7	2099.5	2172.7	2244.4	2291.7
25°	2027.7	2032.3	2046.1	2039.9	2068.9	2076.6	2104.0	2145.2	2232.2	2317.6	2401.6
27.5°	2058.3	2067.4	2078.1	2076.6	2116.2	2125.4	2146.8	2210.8	2311.5	2413.8	2531.2
30°	2104.0	2101.0	2108.6	2122.3	2174.2	2180.3	2206.3	2284.1	2406.1	2538.9	2696.0
32.5°	2165.1	2162.0	2169.6	2181.8	2244.4	2259.7	2294.8	2378.7	2532.8	2693.0	2885.2
35°	2261.2	2268.8	2274.9	2290.2	2351.2	2372.6	2419.9	2526.7	2705.2	2961.5	3236.2
37.5°	2595.3	2578.5	2545.0	2483.9	2500.7	2525.1	2592.3	2744.9	3004.2	3439.1	3690.8
40°	3117.1	3097.3	2992.0	2813.5	2732.6	2738.8	2804.4	3011.9	3365.8	4000.6	4232.5
42.5°	3608.4	3584.0	3458.9	3236.2	3075.9	3057.6	3063.7	3303.3	3762.5	4562.0	4685.6
45°	4072.3	4084.5	3893.8	3722.9	3539.8	3455.9	3429.9	3608.4	4203.5	5048.8	5086.9
47.5°	4516.3	4525.4	4310.3	4145.5	3968.5	3870.9	3820.5	3959.4	4609.3	5442.4	5407.3
50°	4969.4	4993.8	4699.4	4559.0	4395.7	4325.5	4276.7	4368.3	5057.9	5819.3	5710.9
52.5°	5608.7	5506.5	5120.5	4922.1	4806.2	4784.8	4734.5	4809.2	5534.0	6151.9	5926.1
55°	6319.7	6101.5	5695.7	5349.3	5189.1	5189.1	5144.9	5231.9	6025.3	6400.6	6101.5
57.5°	6550.1	6571.5	6431.1	6054.2	5624.0	5590.4	5547.7	5666.7	6446.4	6623.4	6167.1
60°	6952.9	7012.4	7120.8	6806.4	6594.4	6309.0	6049.7	6113.7	6809.5	6806.4	6237.3
62.5°	7152.8	7209.2	7548.0	7378.6	7578.5	7598.3	7113.1	6618.8	7078.0	6898.0	6270.9
65°	6963.6	7003.3	7454.9	7677.7	8257.4	8533.6	8294.1	7297.7	7219.9	6859.8	6145.8
67.5°	6342.6	6417.4	6791.2	7470.2	8863.2	9017.3	8793.0	8230.0	7281.0	6872.1	6045.1
69°	5689.6	5691.1	6209.9	7151.3	8982.2	9089.0	8814.4	8274.2	7216.9	6843.1	5830.0
70°	5321.9	5360.0	5744.5	6875.1	8937.9	8973.0	8762.5	8272.7	7172.6	6833.9	5625.5
72.5°	4153.1	4133.3	4516.3	5749.1	8437.5	8515.3	8283.4	8039.3	7136.0	6440.3	4758.9
75°	2903.5	2964.6	3339.9	4356.1	7270.3	7503.7	7503.7	7723.4	6568.4	5503.4	3440.6
77.5°	2160.5	2169.6	2470.2	3327.7	5849.8	6092.4	6315.1	6499.8	5134.2	3770.2	1538.0
80°	1463.2	1476.9	1751.6	2455.0	4334.7	4557.5	4909.9	4472.0	3054.6	1304.5	175.5
82.5°	921.6	939.9	1158.1	1724.1	3089.7	3190.4	3298.7	2525.1	1017.7	151.1	111.4
85°	547.8	550.8	698.8	1101.6	1884.3	1890.4	1774.5	1162.6	273.1	90.0	70.2
87.5°	228.9	241.1	305.2	488.2	552.3	436.4	271.6	93.1	41.2	36.6	24.4
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°	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6	1928.6
2.5°	1907.2	1924.0	1920.9	1925.5	1931.6	1943.8	1957.6	1951.5	1959.1	1975.9	1975.9
5°	1924.0	1937.7	1942.3	1951.5	1959.1	1971.3	1980.4	1977.4	1994.2	2018.6	2018.6
7.5°	1937.7	1948.4	1963.7	1974.3	1982.0	2006.4	2015.5	2009.4	2021.6	2050.6	2052.2
10°	1957.6	1968.2	1991.1	2001.8	2017.1	2029.3	2041.5	2039.9	2052.2	2078.1	2082.7
12.5°	2006.4	2014.0	2046.1	2061.3	2061.3	2076.6	2067.4	2052.2	2058.3	2073.5	2076.6
15°	2070.5	2081.1	2122.3	2130.0	2122.3	2125.4	2104.0	2055.2	2030.8	2035.4	2036.9
17.5°	2143.7	2162.0	2209.3	2198.6	2189.5	2166.6	2111.7	2038.4	1965.2	1937.7	1942.3
20°	2221.5	2244.4	2299.3	2276.4	2242.9	2183.4	2094.9	1969.8	1856.9	1791.2	1788.2
22.5°	2311.5	2340.5	2392.4	2352.7	2278.0	2174.2	2038.4	1885.8	1742.4	1640.2	1634.1
25°	2435.1	2467.2	2485.5	2406.1	2284.1	2140.7	1957.6	1771.4	1591.4	1469.3	1460.2
27.5°	2575.5	2592.3	2555.7	2436.6	2255.1	2068.9	1856.9	1626.5	1428.1	1327.4	1313.7
30°	2731.1	2717.4	2603.0	2421.4	2180.3	1956.0	1699.7	1441.8	1283.2	1202.3	1190.1
32.5°	2911.2	2868.4	2639.6	2378.7	2081.1	1808.0	1528.8	1324.4	1197.7	1116.9	1110.8
35°	3207.2	3085.1	2699.1	2313.1	1949.9	1634.1	1371.7	1223.7	1124.5	1023.8	1008.5
37.5°	3635.9	3405.5	2786.0	2252.0	1808.0	1466.3	1252.7	1142.8	1055.8	942.9	921.6
40°	4081.4	3782.4	2929.5	2184.9	1675.3	1342.7	1187.0	1109.2	1023.8	917.0	888.0
42.5°	4488.8	4140.9	3097.3	2101.0	1536.4	1243.5	1155.0	1100.1	1014.6	913.9	891.0
45°	4858.0	4478.1	3269.7	2004.9	1383.9	1164.2	1129.1	1083.3	996.3	900.2	881.9
47.5°	5169.3	4765.0	3443.7	1893.5	1237.4	1115.3	1101.6	1052.8	971.9	878.8	863.6
50°	5427.2	4970.9	3542.8	1776.0	1116.9	1078.7	1061.9	1000.9	918.5	831.5	822.4
52.5°	5617.9	5099.1	3632.9	1713.4	1022.3	1019.2	1008.5	949.0	869.7	779.7	761.4
55°	5750.6	5204.4	3593.2	1664.6	921.6	944.4	938.3	901.7	834.6	729.3	714.1
57.5°	5758.2	5213.5	3507.7	1374.7	822.4	854.4	865.1	871.2	796.5	703.4	685.1
60°	5750.6	5146.4	3349.1	1008.5	726.3	764.4	804.1	804.1	752.2	660.7	646.9
62.5°	5715.5	5013.7	2979.8	718.6	650.0	700.3	752.2	729.3	685.1	611.8	598.1
65°	5555.3	4792.4	2331.4	585.9	617.9	663.7	688.1	656.1	599.6	523.3	517.2
67.5°	5263.9	4285.9	1348.8	537.1	590.5	631.7	651.5	602.7	549.3	476.0	473.0
69°	4943.5	3773.2	759.8	524.9	573.7	610.3	627.1	573.7	521.8	451.6	437.9
70°	4656.6	3315.5	494.3	514.2	556.9	596.6	608.8	553.9	505.0	433.3	424.2
72.5°	3527.6	1997.2	332.6	469.9	511.1	541.6	560.0	508.1	453.2	381.4	363.1
75°	1927.0	543.2	292.9	402.8	454.7	495.9	500.5	434.8	355.5	282.3	274.6
77.5°	375.3	186.1	251.8	332.6	361.6	410.4	407.4	363.1	308.2	239.5	230.4
80°	141.9	134.3	210.6	238.0	254.8	306.7	325.0	292.9	256.3	163.3	140.4
82.5°	96.1	99.2	157.2	140.4	155.6	181.6	228.9	222.8	202.9	111.4	99.2
85°	67.1	77.8	87.0	59.5	76.3	114.4	151.1	146.5	125.1	77.8	70.2
87.5°	19.8	21.4	24.4	30.5	47.3	85.4	123.6	102.2	68.7	58.0	50.4
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)