

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: P233870

Luminaire Tested: **VERD-G-C029-D-U-T4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233870  
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-C029-D-U-T4-7030  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14947 lumens  
Efficiency: N/A  
Efficacy: 123.5 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 - G3

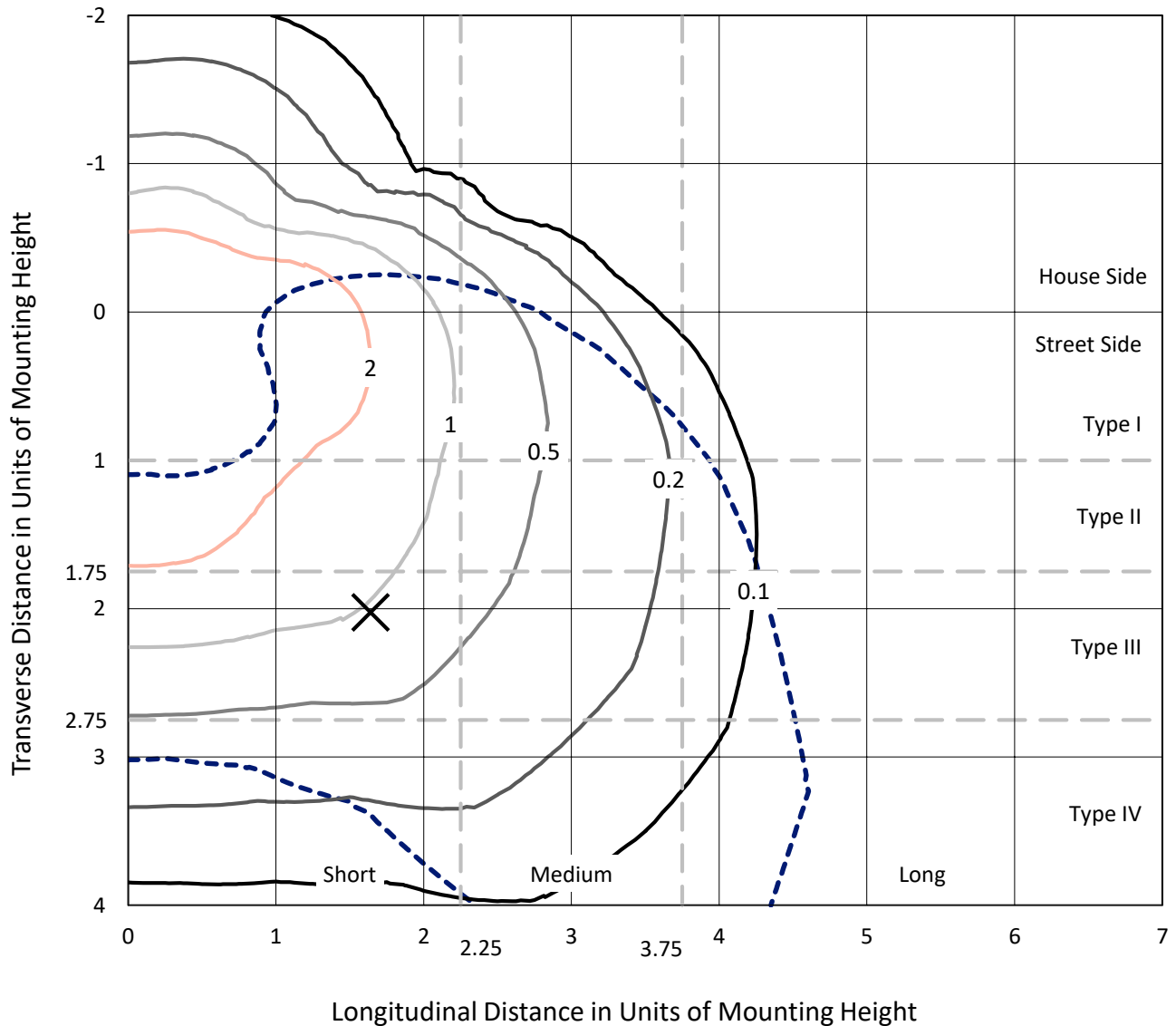
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

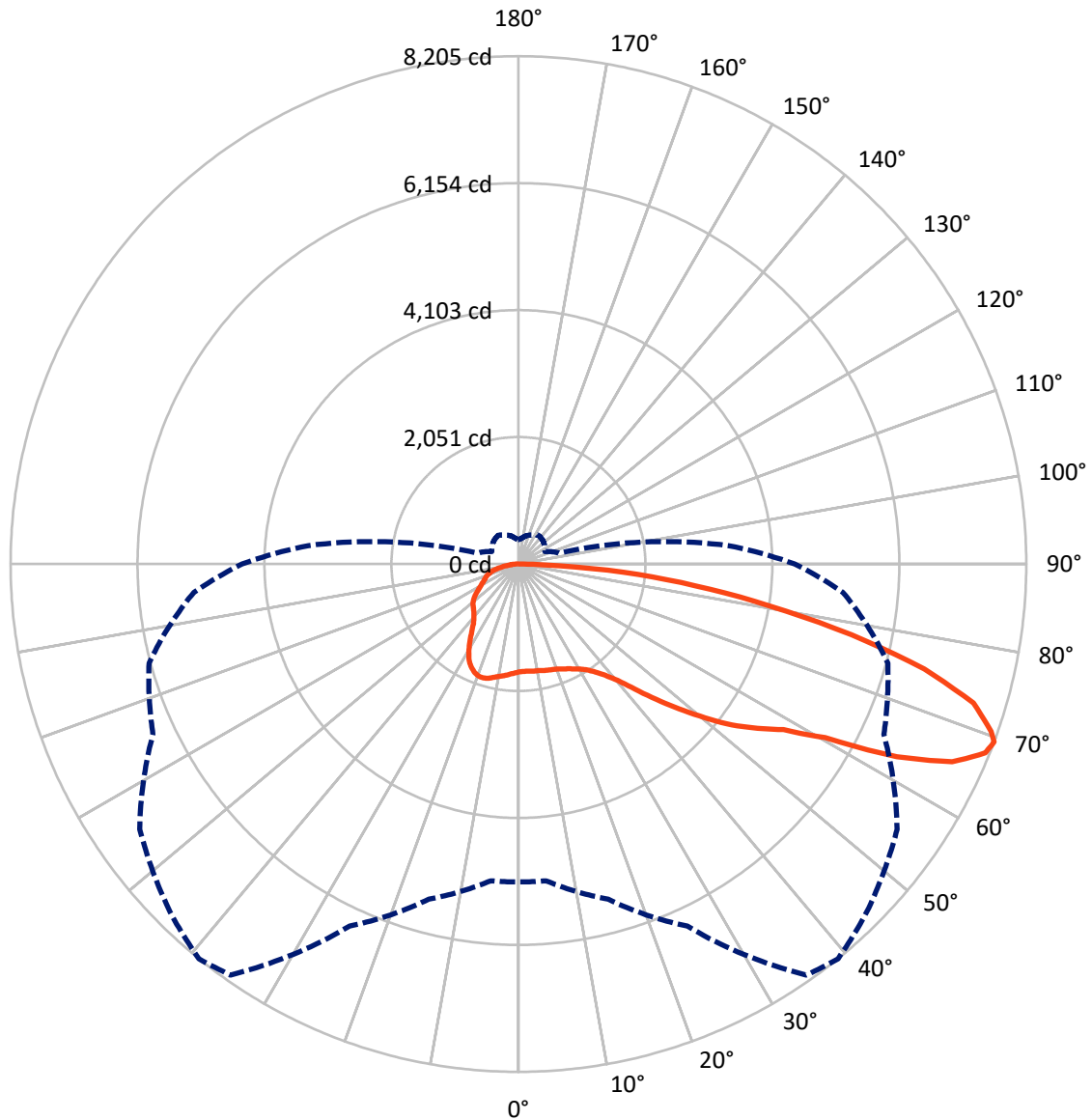
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	3503.9	0.0	3503.9
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	11443.2	0.0	11443.2
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	14947.0	0.0	14947.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	1.1
10°-20°	522.9	3.5
20°-30°	880.3	5.9
30°-40°	1275.4	8.5
40°-50°	2061.6	13.8
50°-60°	3018.1	20.2
60°-70°	3777.6	25.3
70°-80°	2700.5	18.1
80°-90°	541.4	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°	14947.0	100.0
0°-180°	14947.0	100.0



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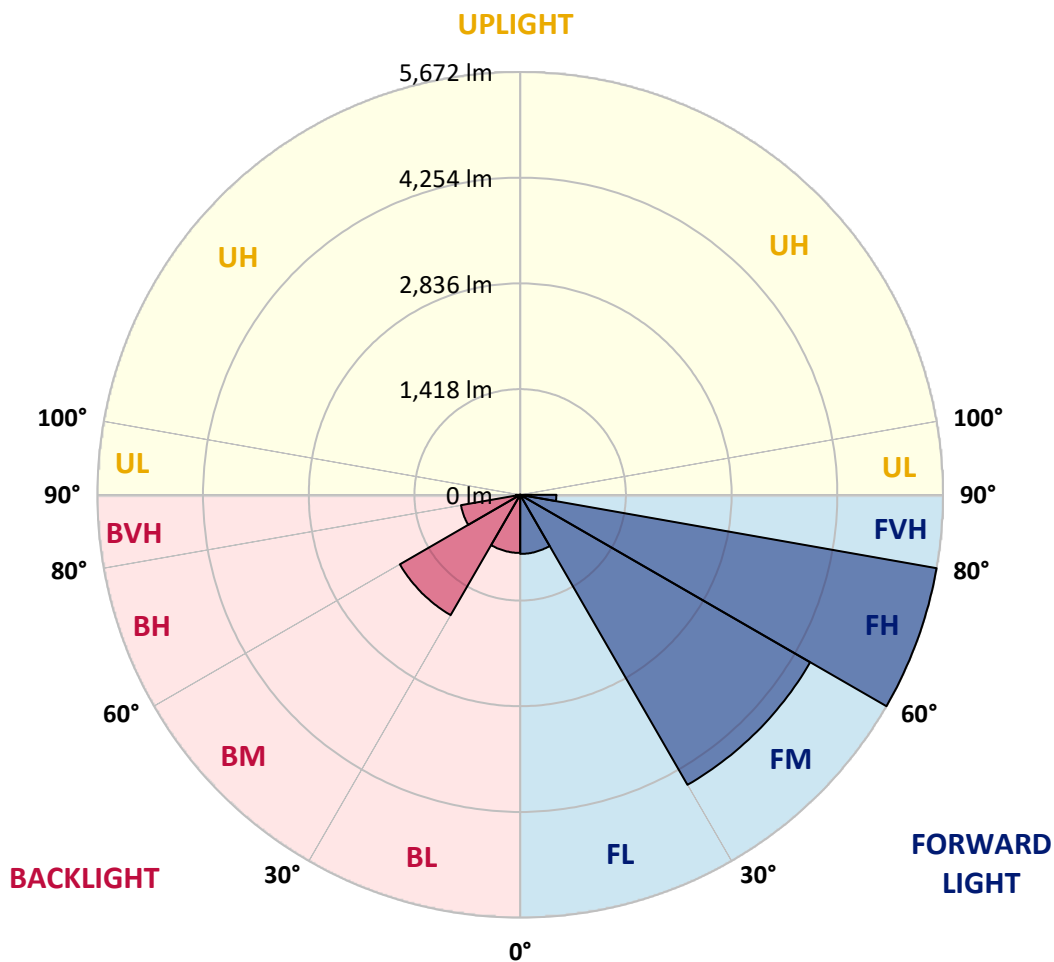
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	793.0	5.3			
FM	(30°-60°)	4491.8	30.1			
FH	(60°-80°)	5672.3	37.9			G3/7500
FVH	(80°-90°)	486.1	3.3			G3/500
BL	(0°-30°)	779.5	5.2	B2/1000		
BM	(30°-60°)	1863.3	12.5	B2/2500		
BH	(60°-80°)	805.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	55.3	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0
2.5°	1771.3	1768.6	1763.1	1741.0	1738.3	1736.9	1739.7	1731.4	1730.0	1732.8	1730.0
5°	1772.7	1770.0	1763.1	1743.8	1741.0	1738.3	1739.7	1732.8	1734.1	1741.0	1741.0
7.5°	1775.5	1772.7	1765.8	1745.2	1750.7	1747.9	1753.4	1743.8	1743.8	1749.3	1750.7
10°	1768.6	1767.2	1763.1	1747.9	1756.2	1750.7	1756.2	1757.6	1763.1	1767.2	1765.8
12.5°	1750.7	1750.7	1750.7	1743.8	1767.2	1765.8	1775.5	1785.1	1798.9	1805.8	1809.9
15°	1739.7	1738.3	1747.9	1746.5	1775.5	1779.6	1796.1	1820.9	1841.6	1859.5	1865.0
17.5°	1750.7	1750.7	1763.1	1760.3	1789.2	1792.0	1809.9	1845.7	1880.2	1914.6	1929.7
20°	1763.1	1764.5	1779.6	1783.7	1811.3	1809.9	1827.8	1871.9	1918.7	1969.7	1995.9
22.5°	1801.6	1800.3	1812.7	1804.4	1836.1	1841.6	1856.7	1895.3	1961.4	2026.2	2068.9
25°	1830.6	1834.7	1847.1	1841.6	1867.8	1874.6	1899.4	1936.6	2015.1	2092.3	2168.0
27.5°	1858.1	1866.4	1876.0	1874.6	1910.5	1918.7	1938.0	1995.9	2086.8	2179.0	2285.1
30°	1899.4	1896.7	1903.6	1916.0	1962.8	1968.3	1991.7	2062.0	2172.2	2292.0	2433.9
32.5°	1954.5	1951.8	1958.7	1969.7	2026.2	2039.9	2071.6	2147.4	2286.5	2431.1	2604.7
35°	2041.3	2048.2	2053.7	2067.5	2122.6	2141.9	2184.6	2281.0	2442.1	2673.5	2921.5
37.5°	2343.0	2327.8	2297.5	2242.4	2257.6	2279.6	2340.2	2477.9	2712.1	3104.7	3331.9
40°	2814.0	2796.1	2701.1	2539.9	2466.9	2472.4	2531.7	2719.0	3038.5	3611.5	3820.9
42.5°	3257.6	3235.5	3122.6	2921.5	2776.8	2760.3	2765.8	2982.1	3396.7	4118.4	4230.0
45°	3676.3	3687.3	3515.1	3360.9	3195.6	3119.8	3096.4	3257.6	3794.7	4557.8	4592.3
47.5°	4077.1	4085.4	3891.2	3742.4	3582.6	3494.5	3449.0	3574.4	4161.1	4913.2	4881.5
50°	4486.2	4508.2	4242.4	4115.7	3968.3	3904.9	3860.9	3943.5	4566.1	5253.4	5155.6
52.5°	5063.3	4971.0	4622.6	4443.5	4338.8	4319.5	4274.1	4341.6	4995.8	5553.7	5349.8
55°	5705.2	5508.2	5141.8	4829.2	4684.5	4684.5	4644.6	4723.1	5439.4	5778.2	5508.2
57.5°	5913.2	5932.5	5805.7	5465.5	5077.1	5046.8	5008.2	5115.7	5819.5	5979.3	5567.5
60°	6276.8	6330.5	6428.3	6144.6	5953.1	5695.6	5461.4	5519.2	6147.3	6144.6	5630.8
62.5°	6457.3	6508.2	6814.0	6661.1	6841.6	6859.5	6421.4	5975.2	6389.8	6227.2	5661.1
65°	6286.5	6322.3	6730.0	6931.1	7454.5	7703.8	7487.6	6588.1	6517.9	6192.8	5548.2
67.5°	5725.9	5793.3	6130.8	6743.8	8001.3	8140.4	7938.0	7429.7	6573.0	6203.8	5457.3
69°	5136.3	5137.7	5606.0	6455.9	8108.8	8205.2	7957.2	7469.6	6515.1	6177.6	5263.1
70°	4804.4	4838.8	5185.9	6206.6	8068.8	8100.5	7910.4	7468.3	6475.2	6169.4	5078.5
72.5°	3749.3	3731.4	4077.1	5190.0	7617.0	7687.3	7477.9	7257.5	6442.1	5814.0	4296.1
75°	2621.2	2676.3	3015.1	3932.5	6563.3	6774.1	6774.1	6972.4	5929.7	4968.3	3106.0
77.5°	1950.4	1958.7	2230.0	3004.1	5281.0	5500.0	5701.1	5867.7	4635.0	3403.6	1388.4
80°	1320.9	1333.3	1581.3	2216.2	3913.2	4114.3	4432.5	4037.2	2757.6	1177.7	158.4
82.5°	832.0	848.5	1045.4	1556.5	2789.2	2880.1	2977.9	2279.6	918.7	136.4	100.6
85°	494.5	497.2	630.8	994.5	1701.1	1706.6	1601.9	1049.6	246.6	81.3	63.4
87.5°	206.6	217.6	275.5	440.8	498.6	393.9	245.2	84.0	37.2	33.1	22.0
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°	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0
2.5°	1721.8	1736.9	1734.1	1738.3	1743.8	1754.8	1767.2	1761.7	1768.6	1783.7	1783.7
5°	1736.9	1749.3	1753.4	1761.7	1768.6	1779.6	1787.9	1785.1	1800.3	1822.3	1822.3
7.5°	1749.3	1758.9	1772.7	1782.4	1789.2	1811.3	1819.5	1814.0	1825.1	1851.2	1852.6
10°	1767.2	1776.8	1797.5	1807.2	1820.9	1831.9	1843.0	1841.6	1852.6	1876.0	1880.2
12.5°	1811.3	1818.2	1847.1	1860.9	1860.9	1874.6	1866.4	1852.6	1858.1	1871.9	1874.6
15°	1869.1	1878.8	1916.0	1922.9	1916.0	1918.7	1899.4	1855.4	1833.3	1837.5	1838.8
17.5°	1935.2	1951.8	1994.5	1984.8	1976.6	1955.9	1906.3	1840.2	1774.1	1749.3	1753.4
20°	2005.5	2026.2	2075.7	2055.1	2024.8	1971.1	1891.2	1778.2	1676.3	1617.1	1614.3
22.5°	2086.8	2112.9	2159.8	2124.0	2056.5	1962.8	1840.2	1702.5	1573.0	1480.7	1475.2
25°	2198.3	2227.3	2243.8	2172.2	2062.0	1932.5	1767.2	1599.2	1436.6	1326.4	1318.2
27.5°	2325.1	2340.2	2307.1	2199.7	2035.8	1867.8	1676.3	1468.3	1289.2	1198.3	1185.9
30°	2465.5	2453.2	2349.8	2185.9	1968.3	1765.8	1534.4	1301.6	1158.4	1085.4	1074.4
32.5°	2628.1	2589.5	2382.9	2147.4	1878.8	1632.2	1380.2	1195.6	1081.3	1008.3	1002.7
35°	2895.3	2785.1	2436.6	2088.1	1760.3	1475.2	1238.3	1104.7	1015.1	924.2	910.5
37.5°	3282.3	3074.4	2515.1	2033.0	1632.2	1323.7	1130.8	1031.7	953.2	851.2	832.0
40°	3684.5	3414.6	2644.6	1972.4	1512.4	1212.1	1071.6	1001.4	924.2	827.8	801.6
42.5°	4052.3	3738.3	2796.1	1896.7	1387.0	1122.6	1042.7	993.1	916.0	825.1	804.4
45°	4385.6	4042.7	2951.8	1809.9	1249.3	1051.0	1019.3	978.0	899.4	812.7	796.1
47.5°	4666.6	4301.6	3108.8	1709.4	1117.1	1006.9	994.5	950.4	877.4	793.4	779.6
50°	4899.4	4487.6	3198.3	1603.3	1008.3	973.8	958.7	903.6	829.2	750.7	742.4
52.5°	5071.6	4603.3	3279.6	1546.8	922.9	920.1	910.5	856.7	785.1	703.9	687.3
55°	5191.4	4698.3	3243.8	1502.7	832.0	852.6	847.1	814.0	753.4	658.4	644.6
57.5°	5198.3	4706.6	3166.6	1241.0	742.4	771.3	781.0	786.5	719.0	635.0	618.5
60°	5191.4	4646.0	3023.4	910.5	655.6	690.1	725.9	725.9	679.1	596.4	584.0
62.5°	5159.7	4526.1	2690.1	648.8	586.8	632.2	679.1	658.4	618.5	552.3	539.9
65°	5015.1	4326.4	2104.7	528.9	557.8	599.2	621.2	592.3	541.3	472.4	466.9
67.5°	4752.0	3869.1	1217.6	484.8	533.1	570.2	588.2	544.1	495.9	429.7	427.0
69°	4462.8	3406.3	685.9	473.8	517.9	551.0	566.1	517.9	471.1	407.7	395.3
70°	4203.8	2993.1	446.3	464.2	502.8	538.6	549.6	500.0	455.9	391.2	382.9
72.5°	3184.6	1803.0	300.3	424.2	461.4	489.0	505.5	458.7	409.1	344.4	327.8
75°	1739.7	490.4	264.5	363.6	410.5	447.7	451.8	392.6	320.9	254.8	247.9
77.5°	338.8	168.0	227.3	300.3	326.4	370.5	367.8	327.8	278.2	216.3	208.0
80°	128.1	121.2	190.1	214.9	230.0	276.9	293.4	264.5	231.4	147.4	126.7
82.5°	86.8	89.5	141.9	126.7	140.5	163.9	206.6	201.1	183.2	100.6	89.5
85°	60.6	70.2	78.5	53.7	68.9	103.3	136.4	132.2	112.9	70.2	63.4
87.5°	17.9	19.3	22.0	27.5	42.7	77.1	111.6	92.3	62.0	52.3	45.5
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)