

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: P233929

Luminaire Tested: **VERD-G-C028-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C028-D-U-T3-8027-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 885mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11059 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 103  
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

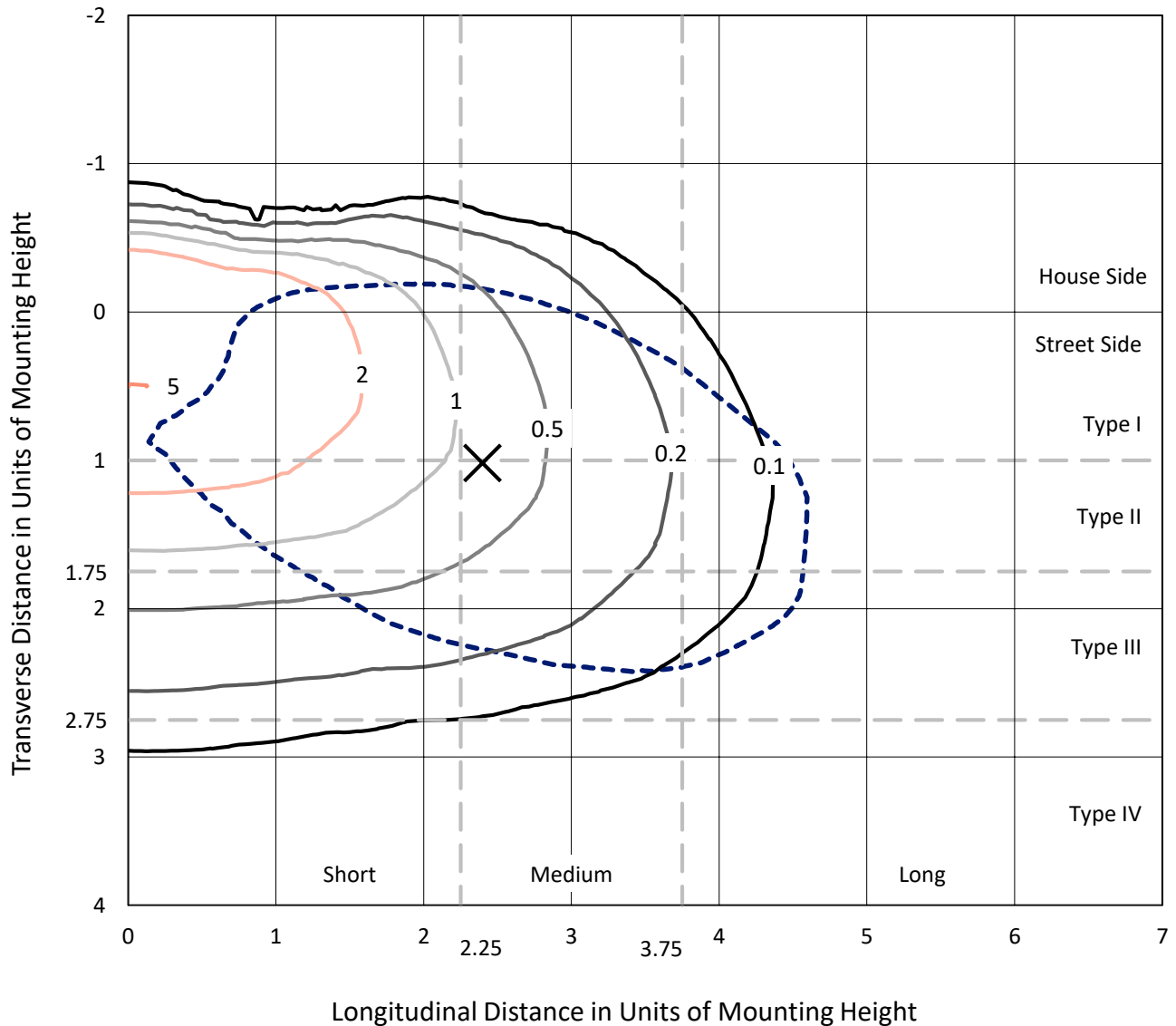


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

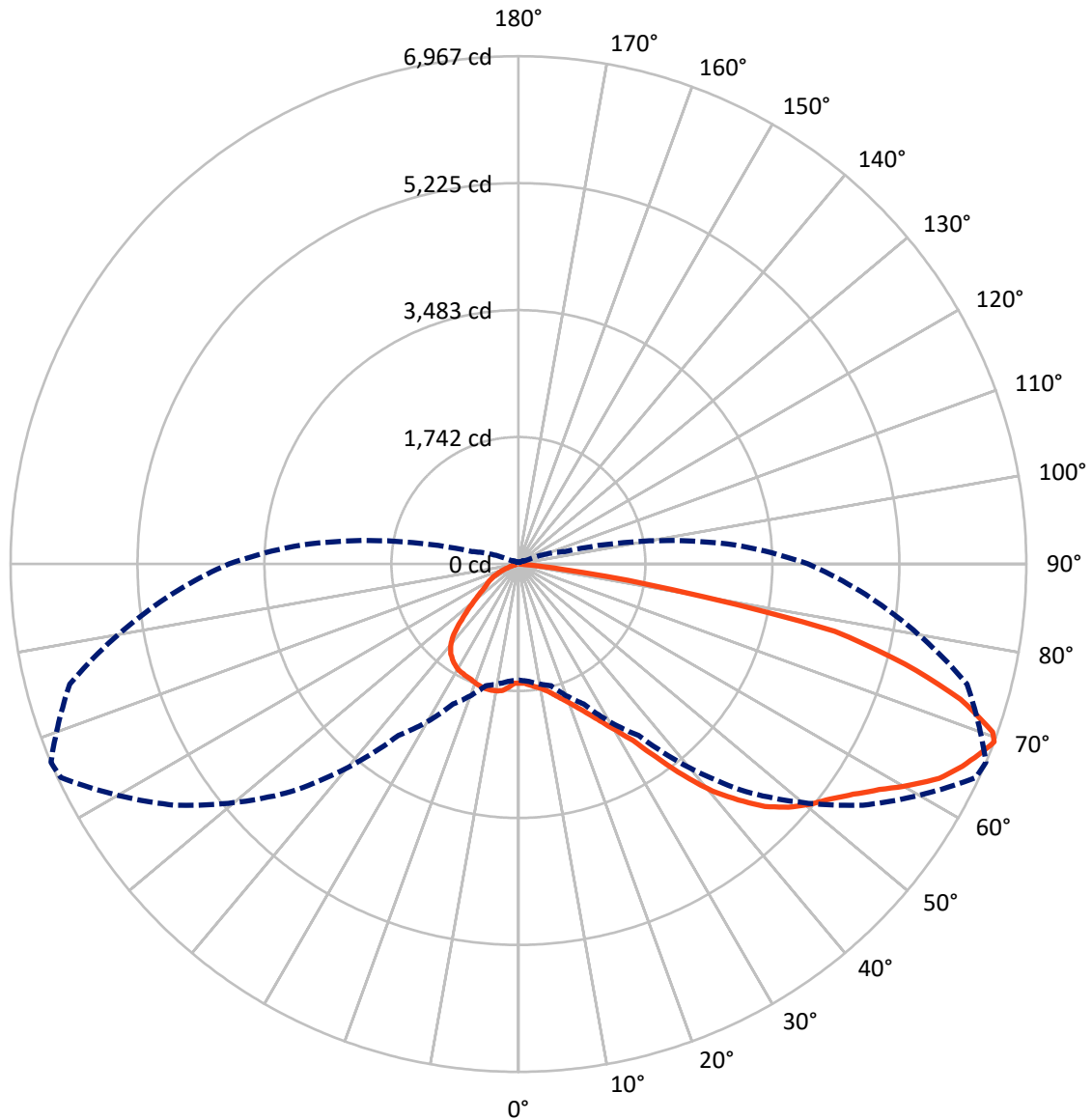


Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1993.6	0.0	1993.6
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	9065.4	0.0	9065.4
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	11059.0	0.0	11059.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.1	1.5
10°-20°	519.2	4.7
20°-30°	886.1	8.0
30°-40°	1339.8	12.1
40°-50°	1892.8	17.1
50°-60°	2287.5	20.7
60°-70°	2413.7	21.8
70°-80°	1453.1	13.1
80°-90°	101.6	0.9
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°	11059.0	100.0
0°-180°	11059.0	100.0



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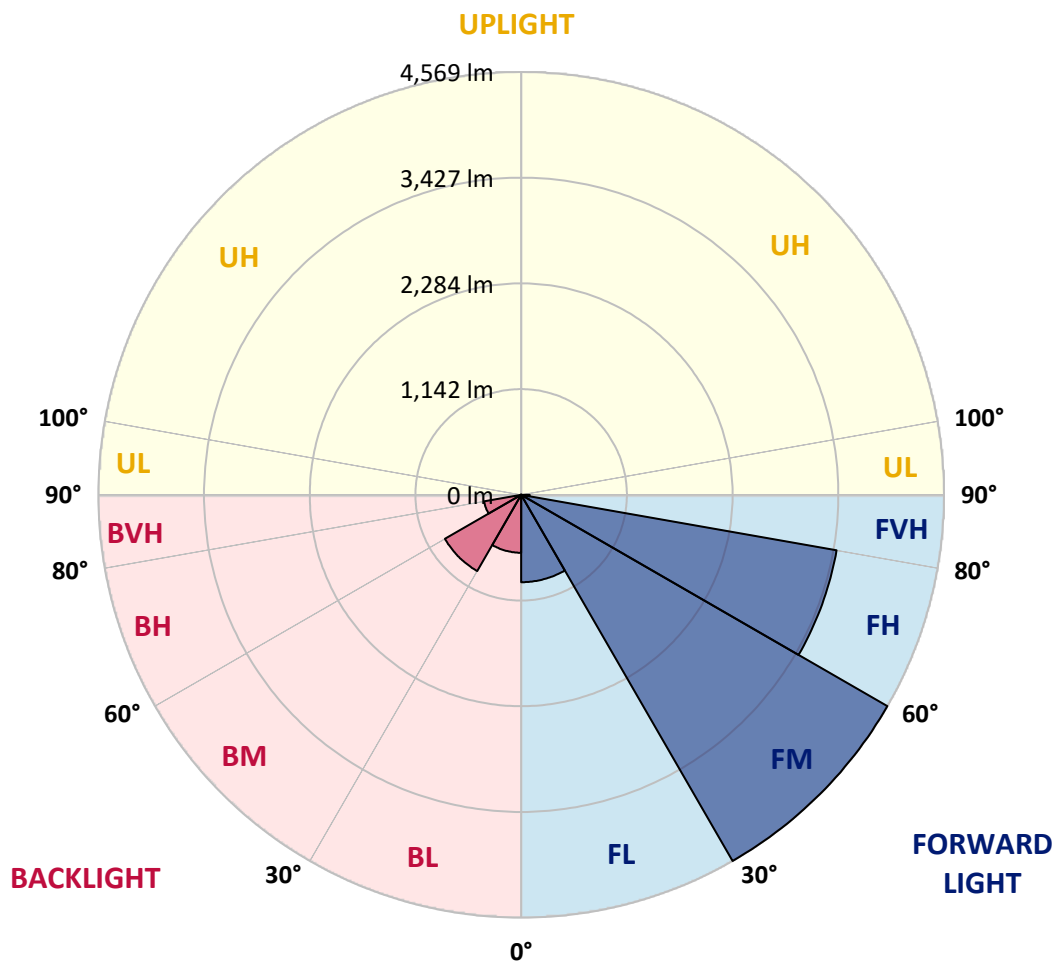
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	944.3	8.5			
FM	(30°-60°)	4569.0	41.3			
FH	(60°-80°)	3460.4	31.3			G2/5000
FVH	(80°-90°)	91.7	0.8			G1/100
BL	(0°-30°)	626.1	5.7	B2/1000		
BM	(30°-60°)	951.2	8.6	B1/1000		
BH	(60°-80°)	406.4	3.7	B1/500		G1/500
BVH	(80°-90°)	9.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5
2.5°	1677.8	1675.1	1675.1	1660.1	1646.0	1642.5	1641.6	1637.2	1638.1	1631.9	1625.8
5°	1726.2	1726.2	1724.5	1705.1	1690.1	1680.4	1674.2	1666.3	1667.2	1662.8	1657.5
7.5°	1799.4	1800.2	1796.7	1771.2	1756.2	1732.4	1718.3	1703.3	1702.4	1697.1	1698.9
10°	1889.2	1891.9	1886.6	1854.0	1828.4	1795.8	1765.9	1739.4	1737.7	1731.5	1736.8
12.5°	1990.6	1994.1	1980.9	1947.4	1918.3	1867.2	1831.1	1795.8	1790.5	1789.7	1793.2
15°	2106.9	2108.6	2104.2	2054.9	2019.7	1972.9	1913.9	1869.0	1863.7	1864.6	1860.2
17.5°	2236.4	2240.8	2231.1	2187.1	2140.4	2076.0	2005.6	1950.0	1947.4	1944.8	1925.4
20°	2373.9	2378.3	2372.1	2330.7	2275.2	2194.1	2107.8	2044.3	2043.4	2037.3	1992.3
22.5°	2529.0	2535.1	2531.6	2481.4	2422.3	2334.2	2226.7	2160.6	2158.9	2139.5	2071.6
25°	2697.3	2695.5	2699.0	2645.3	2589.8	2497.2	2364.2	2295.5	2295.5	2271.7	2171.2
27.5°	2860.3	2859.4	2865.6	2827.7	2769.5	2682.3	2521.9	2452.3	2458.5	2424.1	2291.1
30°	3018.9	3018.9	3033.9	3009.2	2966.0	2874.4	2717.5	2644.4	2652.3	2616.2	2442.6
32.5°	3166.9	3174.0	3199.5	3184.6	3152.0	3069.1	2935.2	2868.2	2886.7	2901.7	2724.6
35°	3276.2	3283.3	3342.3	3347.6	3339.7	3284.1	3184.6	3227.7	3249.8	3367.8	3170.5
37.5°	3372.3	3381.1	3451.6	3495.6	3521.2	3486.8	3493.0	3637.5	3678.9	3818.1	3551.1
40°	3442.7	3462.1	3531.7	3592.5	3682.4	3723.0	3823.4	4028.7	4095.7	4151.2	3812.8
42.5°	3394.3	3407.5	3530.0	3693.0	3824.3	3967.0	4130.1	4374.1	4424.4	4406.8	4043.7
45°	3322.9	3338.8	3467.4	3719.4	3937.1	4221.7	4420.9	4685.2	4742.5	4644.7	4242.9
47.5°	3242.7	3264.8	3404.0	3684.2	4031.4	4456.1	4684.3	4952.2	4985.7	4857.0	4410.3
50°	3161.7	3186.3	3344.1	3655.1	4104.5	4651.7	4876.4	5169.8	5179.5	5033.3	4561.0
52.5°	3052.4	3077.9	3250.7	3594.3	4155.6	4780.4	5044.7	5348.7	5354.9	5223.6	4703.7
55°	2914.0	2946.6	3129.0	3504.4	4168.0	4855.3	5151.3	5534.7	5576.1	5429.8	4820.9
57.5°	2751.0	2781.0	2981.9	3374.9	4106.3	4880.8	5300.3	5780.5	5837.8	5638.6	4917.8
60°	2563.3	2597.7	2799.5	3207.5	3982.0	4952.2	5547.0	6127.7	6162.1	5857.2	5003.3
62.5°	2371.2	2395.9	2579.2	2972.2	3788.2	4995.4	5765.5	6453.7	6476.6	6067.8	5054.4
65°	2098.1	2128.9	2307.8	2702.6	3508.8	4912.5	5849.2	6676.7	6690.8	6244.0	5029.7
67.5°	1801.1	1825.8	1956.2	2377.4	3142.3	4650.0	5814.9	6825.6	6870.5	6381.5	4917.8
69°	1590.5	1615.2	1728.0	2117.5	2870.0	4417.3	5766.4	6926.9	6966.6	6371.8	4775.1
70°	1426.6	1451.3	1557.9	1923.6	2656.7	4220.8	5689.7	6875.8	6901.4	6263.4	4635.9
72.5°	1020.4	1045.1	1132.3	1352.6	2012.6	3469.2	5214.8	6308.3	6342.7	5742.6	4143.3
75°	534.0	593.0	749.9	874.1	1192.2	2442.6	4335.4	5425.4	5475.6	5039.4	3407.5
77.5°	68.7	72.3	211.5	355.1	492.6	1030.1	3079.7	4356.5	4435.8	4033.1	2356.3
80°	55.5	56.4	73.1	177.1	245.0	417.7	1092.7	2039.0	2135.1	1792.3	866.2
82.5°	38.8	40.5	57.3	93.4	80.2	152.4	379.8	576.3	593.9	513.7	345.4
85°	22.0	22.0	27.3	36.1	25.6	57.3	78.4	83.7	74.9	74.0	55.5
87.5°	6.2	7.0	7.9	6.2	2.6	2.6	3.5	3.5	3.5	2.6	2.6
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°	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5
2.5°	1635.5	1633.7	1634.6	1638.1	1643.4	1662.8	1676.0	1677.8	1683.9	1706.8	1704.2
5°	1663.7	1674.2	1680.4	1698.9	1711.2	1737.7	1753.5	1755.3	1764.1	1787.9	1788.8
7.5°	1703.3	1720.9	1729.7	1750.9	1755.3	1767.6	1772.0	1767.6	1768.5	1789.7	1791.4
10°	1737.7	1759.7	1759.7	1765.0	1757.1	1757.9	1743.8	1730.6	1723.6	1742.1	1746.5
12.5°	1790.5	1796.7	1782.6	1766.8	1743.0	1721.8	1698.0	1676.9	1660.1	1670.7	1664.5
15°	1845.2	1835.5	1801.1	1759.7	1717.4	1681.3	1631.9	1601.1	1572.0	1578.2	1572.9
17.5°	1899.8	1868.1	1814.3	1745.6	1683.9	1615.2	1546.5	1498.0	1445.1	1440.7	1432.8
20°	1952.7	1906.9	1817.9	1716.5	1630.2	1533.2	1426.6	1343.8	1265.4	1245.1	1231.9
22.5°	2016.1	1950.0	1822.3	1688.3	1572.0	1439.8	1278.6	1149.9	1065.3	1037.1	1023.9
25°	2097.2	2010.0	1834.6	1667.2	1513.0	1324.4	1103.2	956.1	864.4	816.0	811.6
27.5°	2193.2	2082.2	1855.8	1639.9	1429.3	1170.2	921.7	768.4	670.6	621.2	605.4
30°	2319.3	2172.1	1875.1	1618.7	1311.2	1001.9	731.4	560.4	444.1	412.4	395.6
32.5°	2558.0	2318.4	1899.8	1569.4	1172.0	817.7	518.1	345.4	266.1	245.0	245.0
35°	2946.6	2640.0	1961.5	1501.5	1004.5	595.7	311.1	193.9	158.6	146.3	140.1
37.5°	3297.4	2964.3	2115.7	1396.7	801.0	352.5	178.0	119.8	108.4	110.1	110.1
40°	3545.0	3186.3	2285.8	1254.8	543.7	188.6	112.8	96.0	97.8	98.7	98.7
42.5°	3757.3	3375.8	2379.2	1086.5	296.1	122.5	96.9	87.2	89.9	89.0	88.1
45°	3935.3	3530.0	2410.0	854.7	143.6	108.4	88.1	80.2	80.2	79.3	79.3
47.5°	4087.8	3666.6	2352.7	635.3	116.3	99.6	83.7	74.0	73.1	77.5	77.5
50°	4227.0	3772.3	2210.0	481.1	112.8	91.6	79.3	68.7	69.6	75.8	75.8
52.5°	4343.3	3834.9	1998.5	360.4	104.9	84.6	73.1	64.3	64.3	70.5	70.5
55°	4429.7	3834.9	1837.2	269.6	100.5	77.5	67.9	61.7	58.2	59.9	60.8
57.5°	4472.8	3762.6	1707.7	218.5	95.2	70.5	62.6	53.8	47.6	49.3	48.5
60°	4461.4	3721.2	1558.8	194.7	89.0	65.2	55.5	45.8	39.7	37.9	37.9
62.5°	4440.2	3674.5	1372.9	169.2	82.8	60.8	45.8	37.0	33.5	31.7	32.6
65°	4360.1	3522.9	1137.6	141.0	76.7	59.0	38.8	32.6	29.1	27.3	27.3
67.5°	4166.2	3249.8	860.0	119.0	71.4	47.6	33.5	28.2	24.7	22.9	22.9
69°	3974.1	2988.9	660.0	108.4	67.9	43.2	30.8	25.6	22.9	20.3	20.3
70°	3808.4	2787.2	517.2	101.3	65.2	41.4	30.0	24.7	22.0	19.4	19.4
72.5°	3242.7	2210.9	262.6	88.1	54.6	36.1	26.4	22.0	18.5	15.9	15.9
75°	2515.8	1523.6	173.6	69.6	42.3	32.6	23.8	19.4	15.9	13.2	12.3
77.5°	1513.9	595.7	124.2	44.9	27.3	25.6	19.4	15.9	13.2	10.6	10.6
80°	417.7	255.5	83.7	30.0	15.9	16.7	14.1	11.5	9.7	7.9	7.9
82.5°	251.1	165.7	55.5	19.4	10.6	10.6	7.9	7.9	6.2	6.2	6.2
85°	43.2	33.5	13.2	7.9	6.2	6.2	4.4	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	3.5	3.5	2.6	1.8	0.9	0.0	0.0	0.0
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)