

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: P233684

Luminaire Tested: **VERD-C02H6-D-U-T2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H6-D-U-T2-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10250 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 98
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

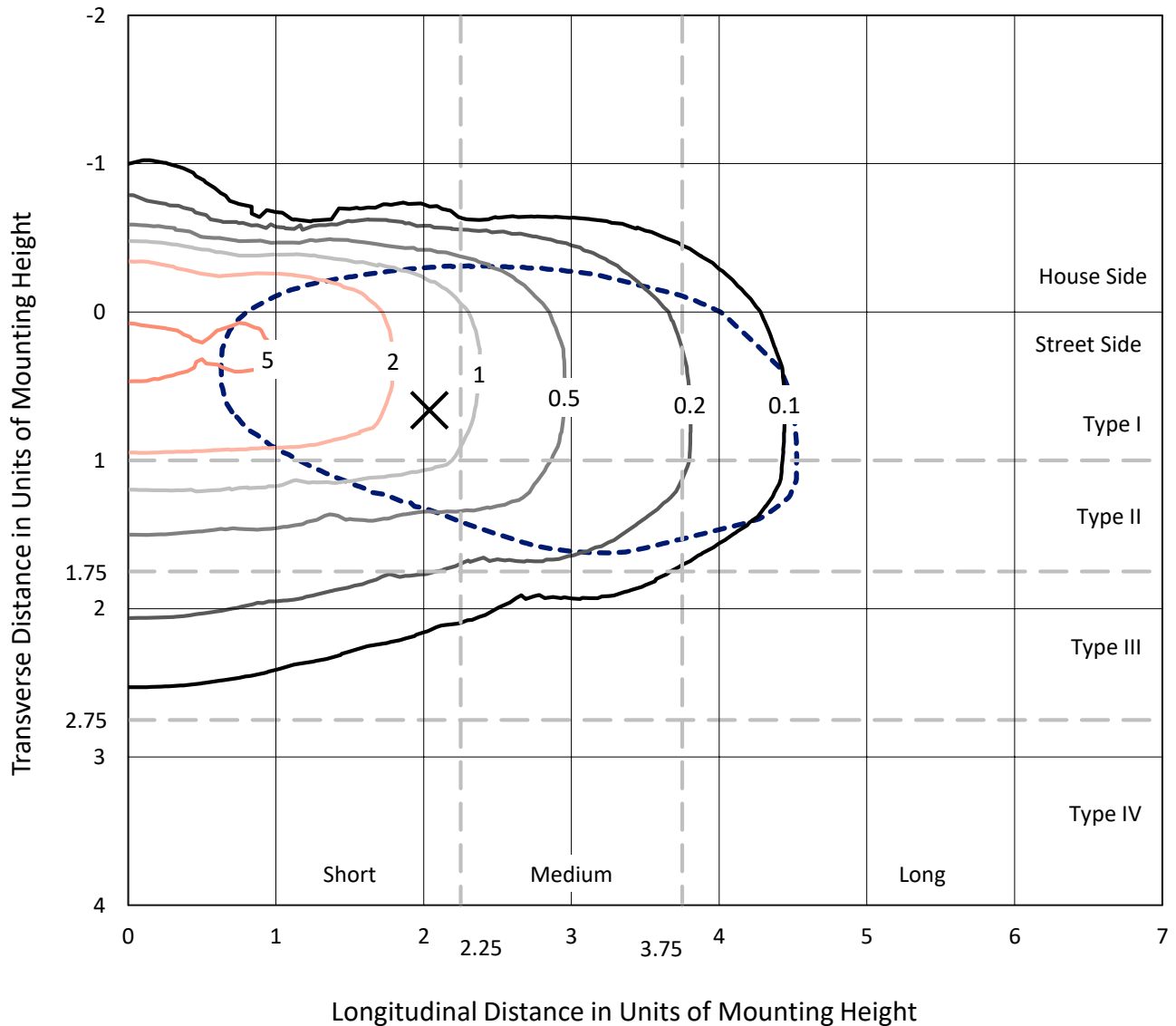


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

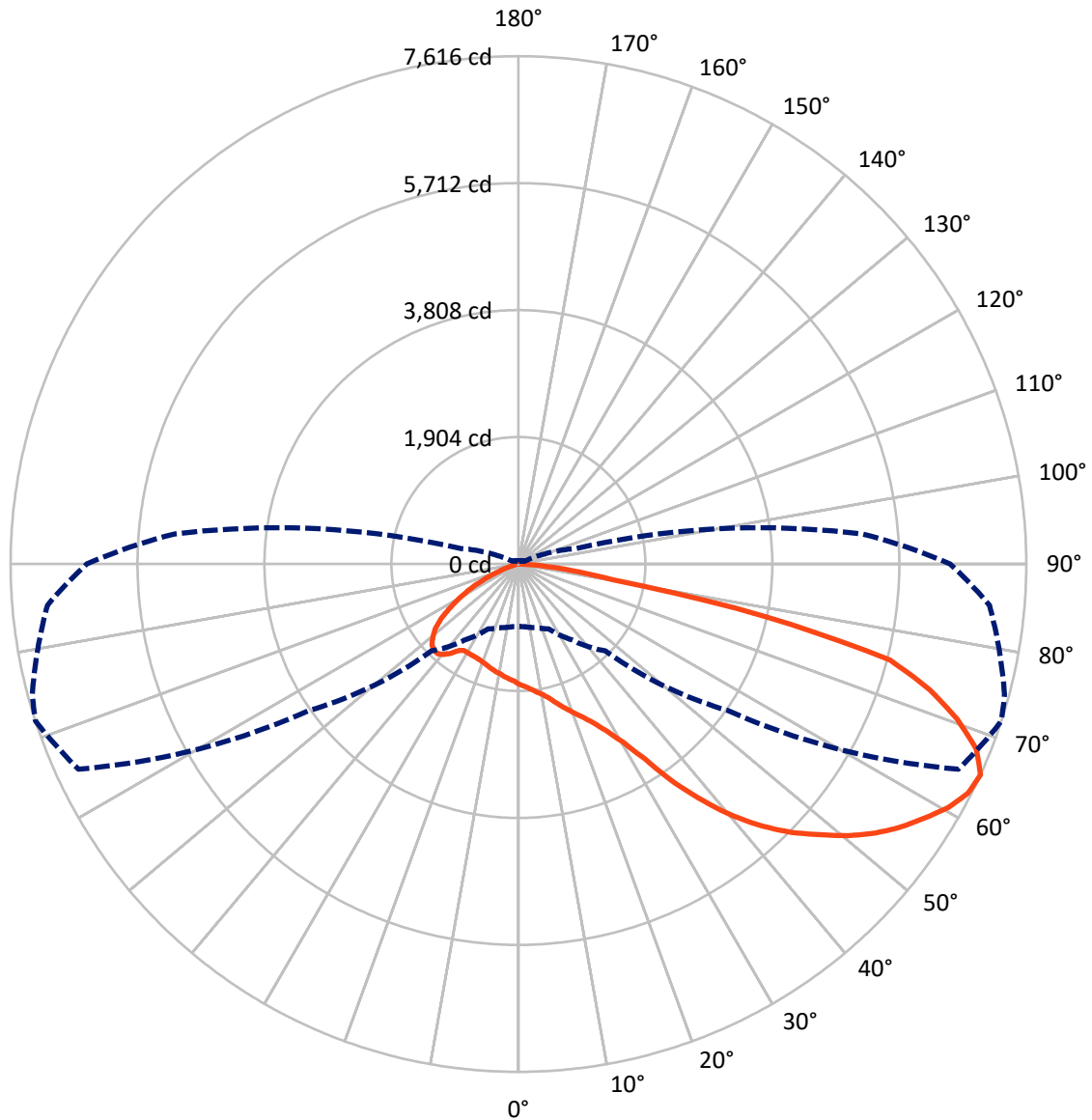


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2130.0	0.0	2130.0
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	8120.0	0.0	8120.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	10250.0	0.0	10250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	1.7
10°-20°	525.6	5.1
20°-30°	878.2	8.6
30°-40°	1299.1	12.7
40°-50°	1796.0	17.5
50°-60°	2101.6	20.5
60°-70°	2089.0	20.4
70°-80°	1251.1	12.2
80°-90°	136.2	1.3
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°	10250.0	100.0
0°-180°	10250.0	100.0

Coefficient of Utilization



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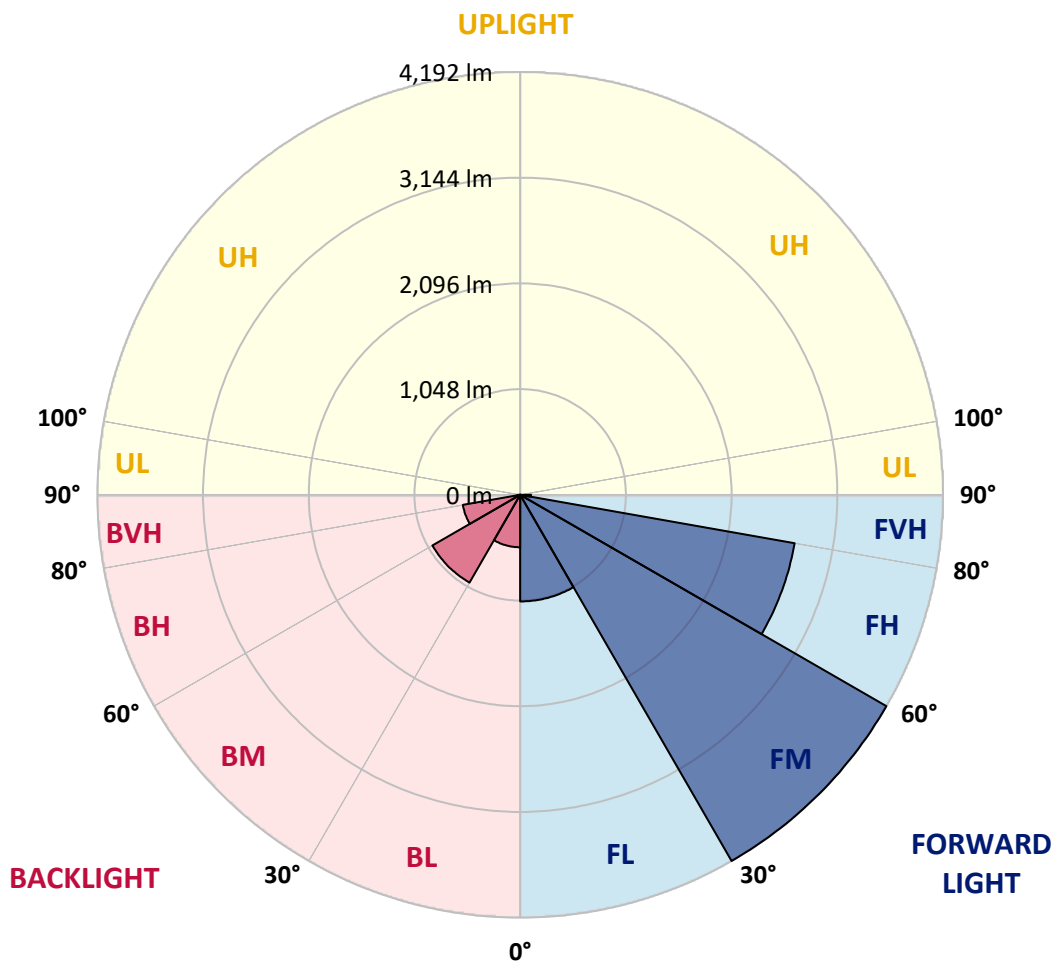
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.0	10.3			
FM (30°-60°)	4192.0	40.9			
FH (60°-80°)	2763.4	27.0			G2/5000
FVH (80°-90°)	107.7	1.1			G2/225
BL (0°-30°)	520.0	5.1	B2/1000		
BM (30°-60°)	1004.8	9.8	B2/2500		
BH (60°-80°)	576.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	28.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5
2.5°	1958.7	1960.3	1961.2	1930.2	1913.5	1894.3	1875.9	1855.8	1834.9	1827.4	1799.8
5°	2079.1	2080.8	2075.8	2047.3	2016.4	1987.9	1952.8	1916.9	1881.7	1871.7	1824.9
7.5°	2195.4	2194.5	2190.3	2154.4	2115.9	2078.3	2028.9	1980.4	1934.4	1918.5	1849.1
10°	2291.5	2293.2	2295.7	2257.2	2219.6	2174.4	2114.2	2042.3	1989.6	1964.5	1874.2
12.5°	2396.9	2391.9	2398.6	2361.0	2309.1	2268.1	2213.8	2129.3	2066.6	2034.8	1922.7
15°	2517.3	2517.3	2508.1	2477.2	2424.5	2374.3	2320.0	2242.2	2166.9	2118.4	1987.9
17.5°	2600.1	2595.1	2592.6	2565.9	2520.7	2477.2	2435.4	2355.9	2274.0	2214.6	2049.0
20°	2635.3	2636.9	2648.6	2629.4	2605.2	2579.2	2533.2	2471.3	2381.0	2317.5	2114.2
22.5°	2703.0	2704.7	2718.9	2705.5	2698.8	2692.1	2649.5	2595.1	2498.9	2437.9	2196.2
25°	2707.2	2708.9	2747.3	2769.1	2803.4	2819.3	2790.0	2743.2	2645.3	2585.9	2318.3
27.5°	2719.7	2724.8	2764.1	2824.3	2914.6	2946.4	2929.7	2928.0	2845.2	2782.5	2477.2
30°	2708.9	2713.9	2770.8	2854.4	2979.8	3073.5	3092.7	3142.1	3108.6	3061.8	2698.0
32.5°	2631.9	2650.3	2718.1	2851.0	3035.9	3205.6	3267.5	3436.5	3486.6	3491.7	3141.2
35°	2492.3	2502.3	2625.2	2812.6	3073.5	3330.3	3500.9	3812.8	4025.2	4016.0	3632.2
37.5°	2386.0	2389.4	2515.7	2747.3	3094.4	3464.1	3766.8	4266.1	4510.3	4521.2	4075.4
40°	2249.7	2274.0	2395.2	2668.7	3082.7	3577.0	4031.1	4688.4	4972.8	4961.1	4464.3
42.5°	2122.6	2136.8	2257.2	2545.8	3040.0	3663.1	4290.4	5097.4	5376.7	5338.3	4837.3
45°	1990.5	2014.7	2125.1	2386.9	2955.6	3711.6	4525.4	5485.5	5741.4	5693.7	5166.0
47.5°	1858.3	1875.9	1993.0	2241.4	2796.7	3709.9	4756.2	5849.3	6065.0	6031.6	5477.1
50°	1414.2	1452.7	1760.5	2089.1	2573.4	3639.7	4942.7	6194.7	6404.6	6352.7	5780.7
52.5°	1296.3	1308.9	1395.0	1912.7	2335.0	3472.4	5088.2	6519.2	6704.0	6644.6	6066.7
55°	1225.2	1240.3	1275.4	1554.7	2139.3	3197.3	5148.4	6821.9	6959.9	6899.7	6321.8
57.5°	1130.7	1145.8	1215.2	1339.0	1935.3	2778.3	5059.8	7090.4	7186.6	7120.5	6558.5
60°	1065.5	1072.2	1139.1	1236.1	1712.0	2355.1	4763.7	7308.7	7409.0	7330.4	6792.6
62.5°	1005.3	1012.8	1060.5	1156.6	1527.1	2044.8	4302.9	7362.2	7567.1	7506.0	7006.7
65°	935.8	942.5	986.0	1071.3	1384.1	1842.4	3827.9	7280.2	7615.6	7546.2	7089.5
67.5°	843.9	853.1	887.3	964.3	1196.8	1613.3	3121.2	7128.8	7403.2	7331.2	6919.8
70°	730.1	734.3	775.3	844.7	1011.1	1400.0	2447.9	6590.3	6982.5	6903.0	6441.4
72.5°	589.6	597.1	641.5	714.2	830.5	1153.3	1748.8	5694.5	6449.8	6419.6	5744.7
75°	393.9	423.2	528.6	602.2	686.6	900.7	1174.2	3996.8	5758.1	5781.5	4907.6
77.5°	75.3	77.8	221.6	329.5	401.4	550.3	726.8	1963.7	3795.3	4205.9	3700.7
80°	49.3	53.5	94.5	230.8	266.0	272.6	373.0	860.6	1430.1	1809.0	2134.3
82.5°	25.9	30.9	56.9	133.8	122.1	67.7	122.1	444.1	792.8	910.8	1076.4
85°	10.9	12.5	27.6	46.0	34.3	28.4	28.4	177.3	351.3	406.5	422.3
87.5°	1.7	1.7	5.9	8.4	5.0	3.3	2.5	0.8	0.8	0.8	0.8
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°	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5	1806.5
2.5°	1799.8	1784.7	1763.8	1739.6	1722.0	1712.8	1705.3	1685.2	1678.5	1691.9	1688.5
5°	1807.3	1789.7	1742.1	1702.8	1663.5	1639.2	1612.4	1577.3	1562.3	1570.6	1568.1
7.5°	1812.3	1790.6	1719.5	1658.4	1592.4	1546.4	1511.2	1465.2	1442.7	1451.0	1441.0
10°	1819.8	1787.2	1692.7	1611.6	1525.5	1458.6	1406.7	1353.2	1329.8	1336.5	1328.1
12.5°	1851.6	1798.9	1680.2	1571.5	1466.1	1382.4	1317.2	1260.3	1226.9	1233.6	1226.9
15°	1903.5	1822.4	1661.8	1520.4	1403.4	1308.0	1232.7	1167.5	1129.0	1138.2	1129.9
17.5°	1957.8	1850.8	1645.1	1463.6	1336.5	1230.2	1151.6	1096.4	1034.5	1040.4	1027.8
20°	2004.7	1877.6	1635.9	1410.0	1273.7	1147.4	1052.9	1015.3	930.0	908.3	894.0
22.5°	2069.9	1916.9	1628.3	1366.6	1195.9	1064.6	952.6	882.3	790.3	744.3	740.1
25°	2162.7	1975.4	1627.5	1332.3	1125.7	977.7	821.3	703.4	622.2	567.9	560.3
27.5°	2280.7	2053.2	1636.7	1298.0	1055.4	868.1	659.9	529.4	456.6	414.8	407.3
30°	2450.4	2155.2	1648.4	1258.7	976.8	725.9	491.8	389.7	329.5	299.4	293.6
32.5°	2814.2	2417.0	1666.0	1217.7	882.3	547.0	357.1	282.7	236.7	218.3	227.5
35°	3252.5	2772.4	1744.6	1165.0	758.5	389.7	257.6	201.6	169.8	174.0	179.0
37.5°	3635.5	3112.0	1921.0	1097.3	593.0	286.0	177.3	150.5	150.5	163.9	175.6
40°	3996.8	3418.1	2079.1	1005.3	415.7	197.4	137.2	139.7	137.2	145.5	143.0
42.5°	4338.0	3708.3	2202.9	895.7	271.8	136.3	124.6	129.6	125.4	127.1	119.6
45°	4660.8	4008.5	2271.5	734.3	180.6	118.8	114.6	122.9	122.1	120.4	112.9
47.5°	4959.4	4272.8	2305.8	529.4	124.6	107.0	107.9	113.7	116.2	114.6	110.4
50°	5252.1	4536.2	2274.8	317.0	112.1	97.9	103.7	103.7	108.7	99.5	96.2
52.5°	5532.3	4800.5	2177.0	192.4	102.9	91.2	96.2	94.5	97.0	87.8	86.1
55°	5795.7	4997.1	1983.8	151.4	97.0	87.0	87.8	89.5	85.3	75.3	78.6
57.5°	6074.2	5164.3	1714.5	137.2	94.5	81.1	82.8	82.0	75.3	66.1	66.1
60°	6303.4	5285.6	1444.3	124.6	92.8	79.5	73.6	71.9	61.9	56.9	56.0
62.5°	6461.5	5319.9	1180.9	111.2	87.8	73.6	66.1	61.1	51.9	46.8	45.2
65°	6474.0	5173.5	899.1	100.4	82.8	68.6	61.1	50.2	41.0	36.8	35.1
67.5°	6217.3	4767.1	633.9	92.0	74.4	63.6	53.5	40.1	32.6	29.3	28.4
70°	5680.3	4261.9	388.1	80.3	67.7	59.4	55.2	32.6	26.8	22.6	22.6
72.5°	4984.5	3691.5	227.5	68.6	56.9	47.7	36.8	27.6	22.6	17.6	17.6
75°	4272.0	2930.5	139.7	51.9	41.8	37.6	28.4	23.4	18.4	13.4	13.4
77.5°	3076.0	2163.6	108.7	33.5	25.9	26.8	20.9	18.4	15.1	10.9	10.9
80°	1887.6	1317.2	77.8	22.6	15.1	15.1	15.1	14.2	10.9	9.2	8.4
82.5°	956.8	602.2	38.5	13.4	9.2	9.2	9.2	10.0	8.4	6.7	6.7
85°	336.2	168.9	11.7	6.7	5.9	5.9	5.0	5.0	4.2	3.3	3.3
87.5°	0.8	1.7	1.7	2.5	3.3	3.3	2.5	1.7	0.8	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)