

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: P509177

Luminaire Tested: **VERD-CA2-120-740-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-740-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17247 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

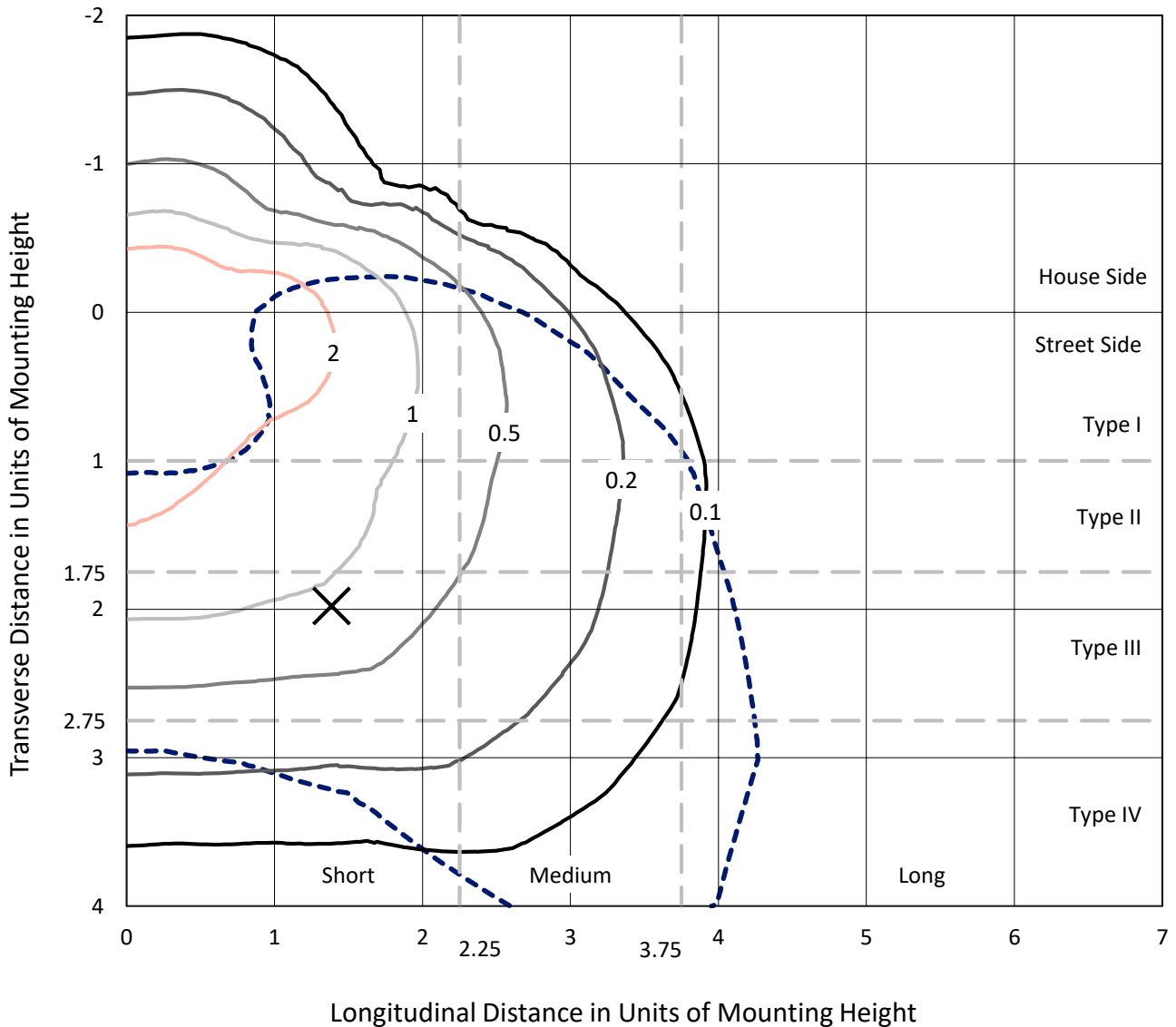
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

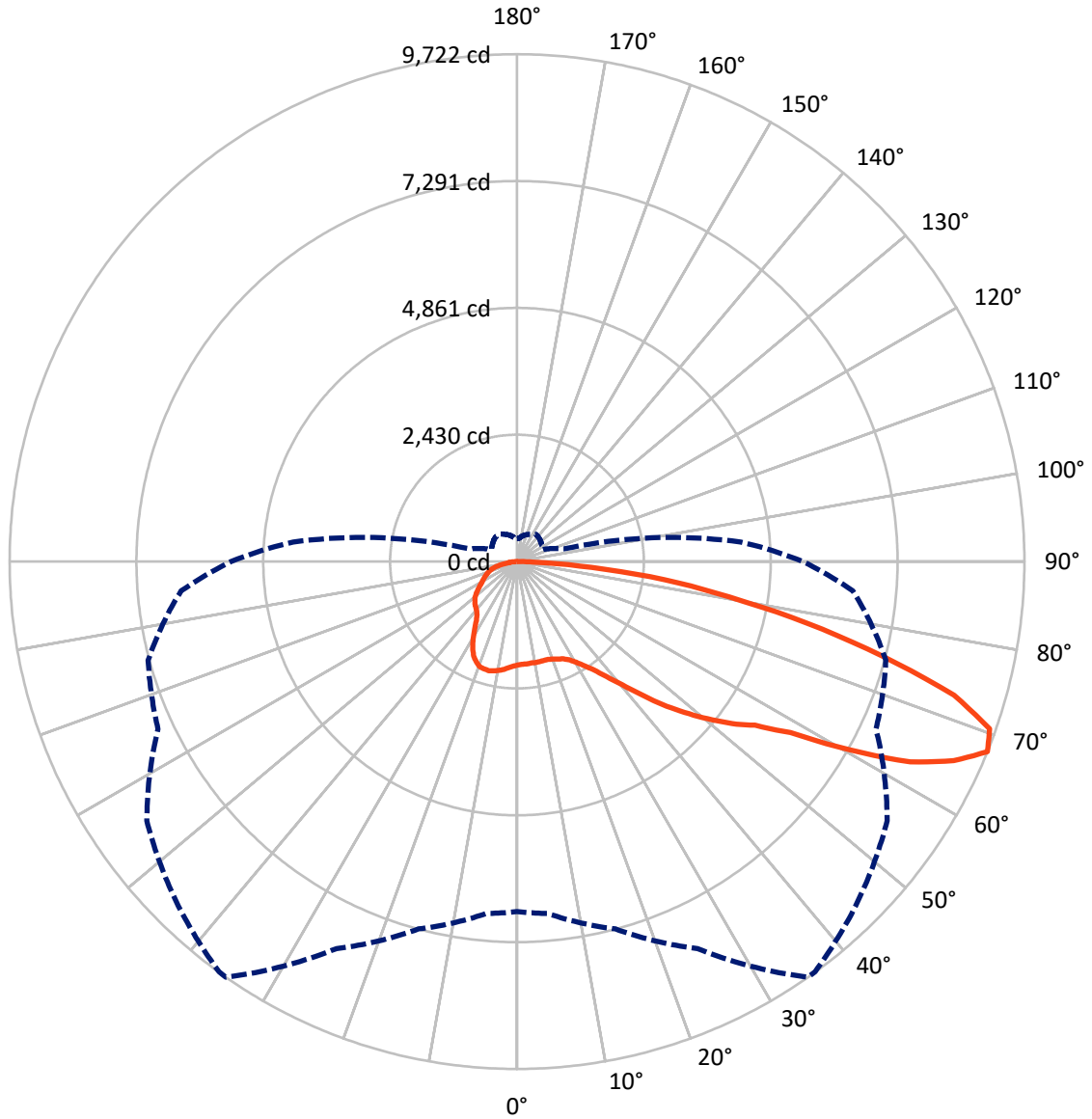
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3929.2	0.0	3929.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	13317.8	0.0	13317.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	17247.0	0.0	17247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	1.1
10°-20°	588.3	3.4
20°-30°	981.9	5.7
30°-40°	1510.7	8.8
40°-50°	2489.6	14.4
50°-60°	3556.0	20.6
60°-70°	4427.4	25.7
70°-80°	2987.8	17.3
80°-90°	513.6	3.0
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°	17247.0	100.0
0°-180°	17247.0	100.0

Coefficient of Utilization



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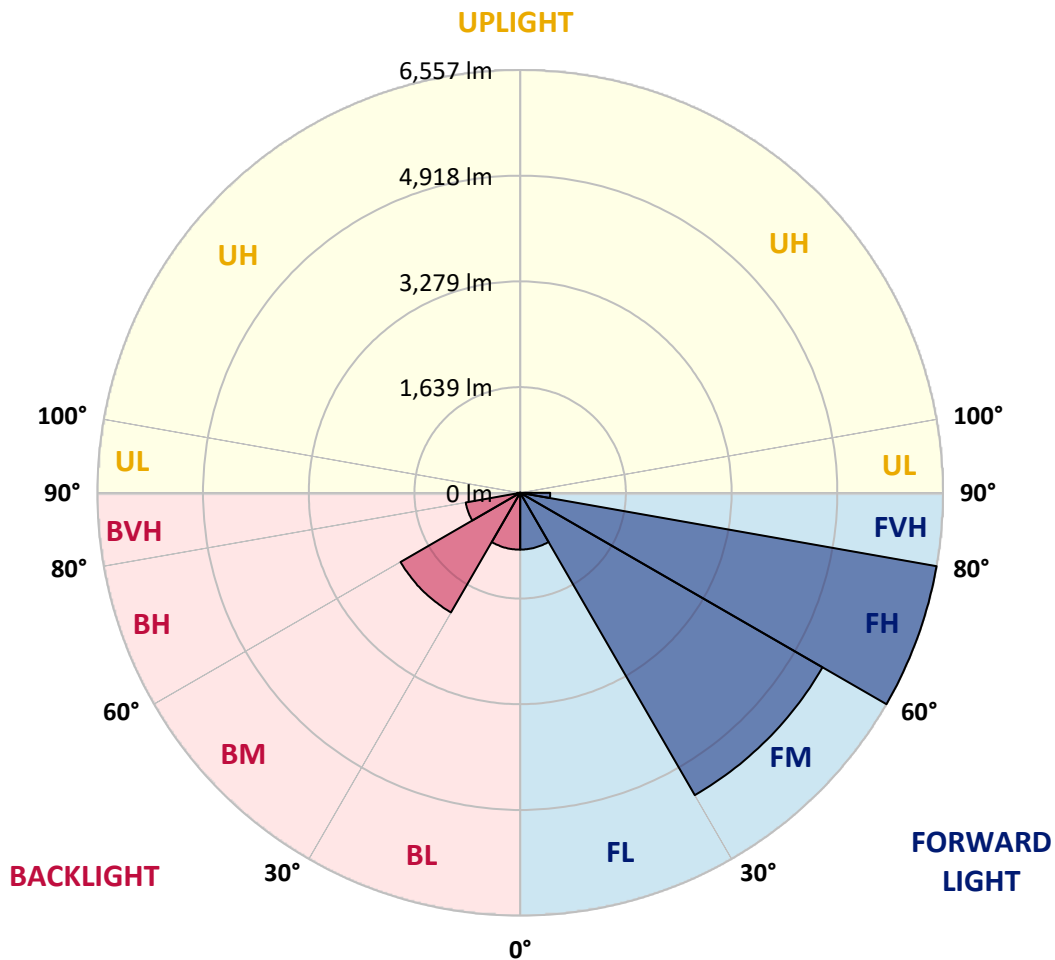
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	880.1	5.1			
FM	(30°-60°)	5414.0	31.4			
FH	(60°-80°)	6557.4	38.0			G3/7500
FVH	(80°-90°)	466.2	2.7			G3/500
BL	(0°-30°)	881.9	5.1	B2/1000		
BM	(30°-60°)	2142.3	12.4	B2/2500		
BH	(60°-80°)	857.7	5.0	B2/1000		G2/1000
BVH	(80°-90°)	47.4	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9
2.5°	1954.0	1972.6	1970.7	1967.0	1968.9	1970.7	1961.5	1955.9	1963.3	1965.2	1974.5
5°	1952.2	1967.0	1965.2	1965.2	1970.7	1968.9	1954.0	1942.9	1955.9	1965.2	1974.5
7.5°	1950.3	1963.3	1963.3	1957.7	1961.5	1961.5	1954.0	1961.5	1961.5	1976.3	1987.5
10°	1948.4	1959.6	1959.6	1961.5	1967.0	1968.9	1968.9	1974.5	1994.9	2000.5	2022.8
12.5°	1926.1	1935.4	1942.9	1954.0	1965.2	1968.9	1978.2	1994.9	2020.9	2034.0	2060.0
15°	1907.5	1920.5	1933.6	1944.7	1961.5	1965.2	1985.6	2013.5	2041.4	2069.3	2108.3
17.5°	1915.0	1931.7	1946.6	1955.9	1968.9	1972.6	1993.1	2030.2	2074.9	2115.8	2169.7
20°	1931.7	1950.3	1965.2	1976.3	1993.1	1996.8	2013.5	2048.8	2106.5	2169.7	2231.0
22.5°	1972.6	1985.6	2002.4	2007.9	2026.5	2030.2	2041.4	2076.7	2151.1	2231.0	2309.1
25°	2009.8	2024.7	2037.7	2043.3	2063.7	2067.4	2087.9	2117.6	2205.0	2296.1	2409.5
27.5°	2058.1	2073.0	2089.7	2095.3	2130.6	2134.4	2143.7	2188.3	2275.7	2381.6	2522.9
30°	2151.1	2160.4	2179.0	2201.3	2236.6	2240.3	2260.8	2307.3	2370.5	2500.6	2688.4
32.5°	2292.4	2305.4	2298.0	2327.7	2379.8	2379.8	2450.4	2528.5	2606.6	2697.7	2946.8
35°	2563.8	2556.4	2549.0	2522.9	2554.5	2565.7	2664.2	2796.2	3013.8	3270.3	3515.7
37.5°	2900.3	2898.5	2859.4	2799.9	2798.1	2801.8	2891.0	3114.2	3460.0	4030.7	4294.7
40°	3417.2	3432.1	3294.5	3171.8	3103.0	3088.1	3158.8	3439.5	3904.3	4664.7	4845.1
42.5°	3934.1	3902.4	3790.9	3592.0	3476.7	3467.4	3480.4	3725.8	4335.6	5177.9	5242.9
45°	4391.4	4415.6	4240.8	4120.0	3908.0	3911.7	3854.1	4079.1	4763.3	5540.4	5551.6
47.5°	4858.1	4876.7	4659.1	4521.6	4318.9	4318.9	4227.8	4406.3	5144.4	5886.2	5863.9
50°	5356.3	5399.1	5125.8	4917.6	4731.7	4724.2	4696.3	4807.9	5519.9	6178.1	6088.9
52.5°	6029.4	5882.5	5624.1	5341.5	5157.4	5135.1	5109.1	5189.0	5951.3	6416.1	6233.9
55°	6724.7	6525.8	6261.8	5882.5	5534.8	5566.4	5501.4	5592.5	6347.3	6700.5	6423.5
57.5°	7146.7	7221.1	7078.0	6752.6	6180.0	6174.4	5929.0	5977.3	6702.4	6940.4	6624.3
60°	7591.1	7695.2	7791.9	7598.5	7327.1	7204.4	6574.1	6386.3	7102.1	7115.1	6602.0
62.5°	7823.5	7803.0	8223.2	8245.5	8455.6	8470.5	7855.1	6916.2	7338.2	7262.0	6680.1
65°	7408.9	7420.0	8111.7	8472.3	9195.6	9238.3	9013.4	7847.7	7537.2	7330.8	6590.8
67.5°	6706.1	6769.3	7288.0	8180.5	9721.7	9714.3	9227.2	8658.3	7589.2	7315.9	6460.7
70°	5484.6	5551.6	6083.3	7379.1	9606.5	9545.1	9136.1	8723.3	7544.6	7182.1	5811.8
72.5°	4207.4	4198.1	4748.4	5893.6	8758.7	8818.2	8669.4	8264.1	7330.8	6609.4	4761.4
75°	2965.4	2918.9	3407.9	4467.6	7223.0	7442.4	7949.9	7838.4	6522.1	5440.0	3182.9
77.5°	1946.6	2017.2	2407.7	3303.8	5679.8	5863.9	6564.8	6343.6	4826.5	3471.1	1149.0
80°	1236.4	1299.6	1615.6	2359.3	4129.3	4212.9	4785.6	4034.5	2578.7	1145.3	159.9
82.5°	751.1	760.4	1041.1	1595.2	2848.3	2848.3	3013.8	2255.2	1009.5	148.7	104.1
85°	399.7	422.0	561.5	860.8	1435.3	1543.1	1366.5	860.8	195.2	81.8	63.2
87.5°	126.4	128.3	184.1	332.8	308.6	317.9	106.0	44.6	22.3	14.9	13.0
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°	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9	1981.9
2.5°	1978.2	1980.0	1991.2	1996.8	1998.6	1993.1	2006.1	2024.7	2019.1	2039.5	2032.1
5°	1978.2	1987.5	2002.4	2000.5	2015.4	2022.8	2037.7	2056.3	2050.7	2080.4	2069.3
7.5°	1993.1	2007.9	2019.1	2041.4	2052.6	2048.8	2082.3	2097.2	2089.7	2112.0	2100.9
10°	2030.2	2047.0	2061.8	2086.0	2102.7	2095.3	2113.9	2123.2	2110.2	2132.5	2126.9
12.5°	2073.0	2091.6	2121.3	2138.1	2151.1	2138.1	2138.1	2132.5	2113.9	2134.4	2121.3
15°	2121.3	2145.5	2186.4	2205.0	2201.3	2179.0	2158.5	2119.5	2069.3	2078.6	2060.0
17.5°	2186.4	2216.2	2262.6	2273.8	2258.9	2205.0	2151.1	2080.4	1991.2	1968.9	1954.0
20°	2257.1	2290.5	2355.6	2350.0	2316.6	2221.7	2136.2	2026.5	1887.1	1823.9	1794.1
22.5°	2353.7	2387.2	2448.6	2415.1	2346.3	2221.7	2076.7	1924.3	1758.8	1665.8	1645.4
25°	2459.7	2506.2	2532.2	2457.9	2338.9	2171.5	1996.8	1796.0	1584.0	1483.6	1463.2
27.5°	2589.9	2621.5	2595.4	2463.4	2301.7	2087.9	1866.6	1624.9	1422.3	1336.8	1307.0
30°	2742.3	2746.0	2643.8	2452.3	2218.0	1968.9	1706.7	1452.0	1295.9	1215.9	1197.3
32.5°	2945.0	2907.8	2686.5	2400.2	2104.6	1805.3	1528.3	1336.8	1206.6	1106.2	1080.2
35°	3473.0	3303.8	2781.4	2340.7	1967.0	1623.1	1373.9	1232.6	1123.0	1009.5	989.1
37.5°	4157.2	3857.8	2948.7	2279.4	1810.9	1455.7	1271.7	1171.3	1078.3	951.9	924.0
40°	4670.3	4324.5	3207.1	2212.4	1667.7	1336.8	1215.9	1147.1	1044.9	929.6	899.9
42.5°	5062.6	4713.1	3473.0	2138.1	1533.8	1243.8	1176.9	1130.4	1031.9	924.0	899.9
45°	5334.0	4984.5	3701.7	2050.7	1362.8	1163.9	1147.1	1102.5	1007.7	903.6	879.4
47.5°	5609.2	5176.0	3829.9	1959.6	1219.6	1119.2	1104.4	1054.2	966.8	868.2	849.7
50°	5849.0	5393.5	3939.6	1866.6	1106.2	1065.3	1056.0	989.1	905.4	812.5	788.3
52.5°	5917.8	5445.6	3895.0	1861.1	1004.0	1007.7	989.1	935.2	857.1	756.7	732.5
55°	6074.0	5590.6	3787.2	1690.0	905.4	918.4	914.7	886.8	814.3	721.4	702.8
57.5°	6140.9	5480.9	3631.0	1256.8	803.2	814.3	845.9	845.9	782.7	699.1	682.3
60°	6131.6	5484.6	3352.1	879.4	702.8	732.5	777.1	777.1	726.9	645.1	624.7
62.5°	6061.0	5343.3	2889.2	671.2	639.6	682.3	734.4	700.9	656.3	565.2	550.3
65°	5943.8	4954.8	2002.4	589.4	604.2	654.4	680.5	639.6	585.6	503.8	494.5
67.5°	5475.3	4304.0	931.5	539.2	574.5	613.5	635.8	578.2	522.4	448.1	436.9
70°	4661.0	3149.5	401.6	500.1	539.2	567.1	589.4	529.9	470.4	405.3	401.6
72.5°	3389.3	1680.7	334.7	438.8	479.7	509.4	537.3	477.8	420.2	344.0	344.0
75°	1632.4	278.9	288.2	364.4	401.6	461.1	474.1	390.4	325.4	262.1	256.6
77.5°	200.8	180.3	249.1	290.0	321.6	353.2	384.9	338.4	280.7	215.7	204.5
80°	126.4	126.4	197.1	202.7	219.4	252.9	282.6	264.0	221.2	124.6	115.3
82.5°	93.0	100.4	130.1	96.7	115.3	145.0	165.5	187.8	159.9	87.4	81.8
85°	59.5	65.1	61.4	48.3	63.2	96.7	132.0	130.1	107.8	65.1	61.4
87.5°	13.0	13.0	13.0	11.2	13.0	16.7	31.6	61.4	44.6	35.3	33.5
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)