

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: P233516

Luminaire Tested: **VERD-C02H8-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H8-D-U-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 960mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12277 lumens
Efficiency: N/A
Efficacy: 111.6 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

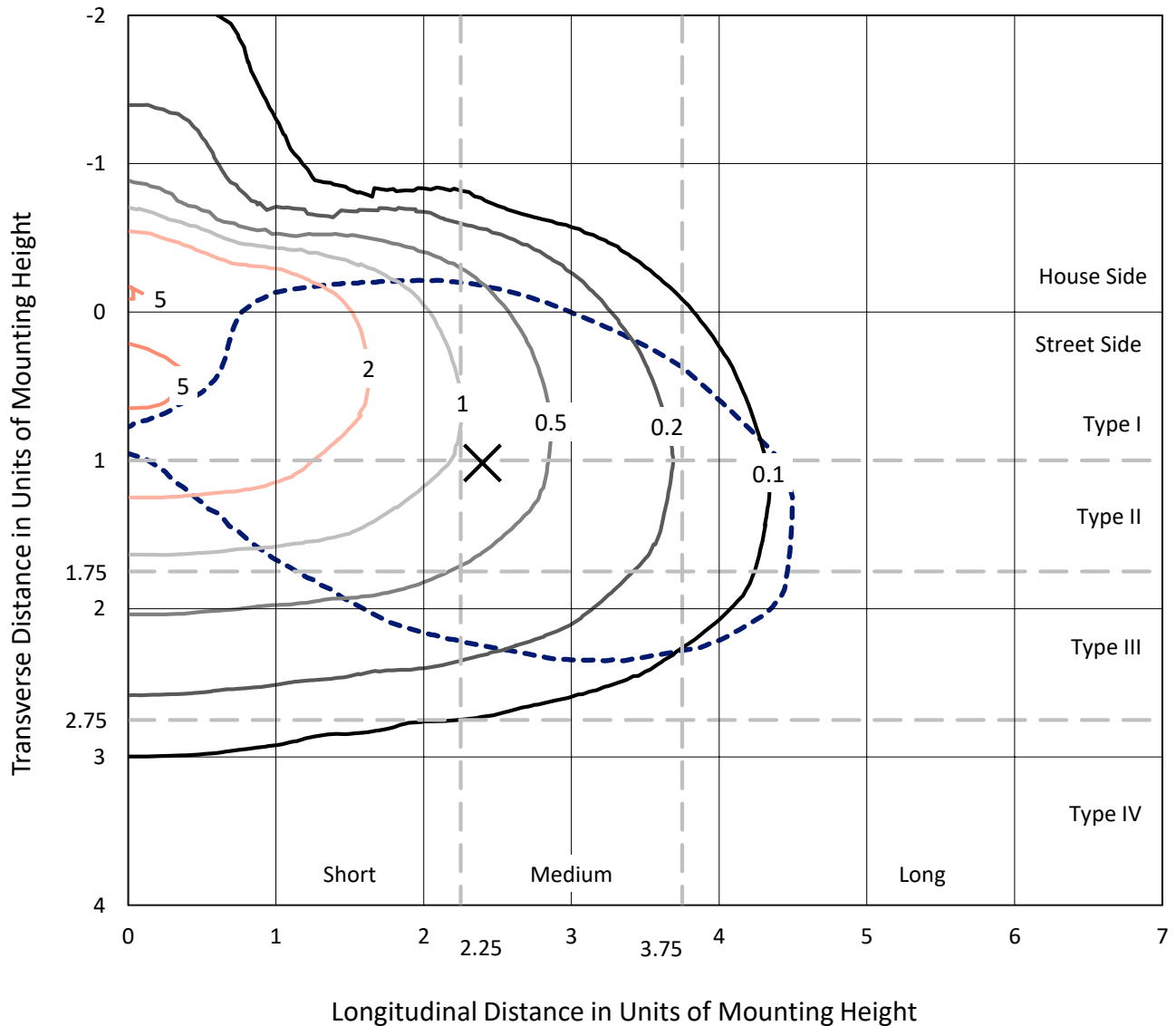
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

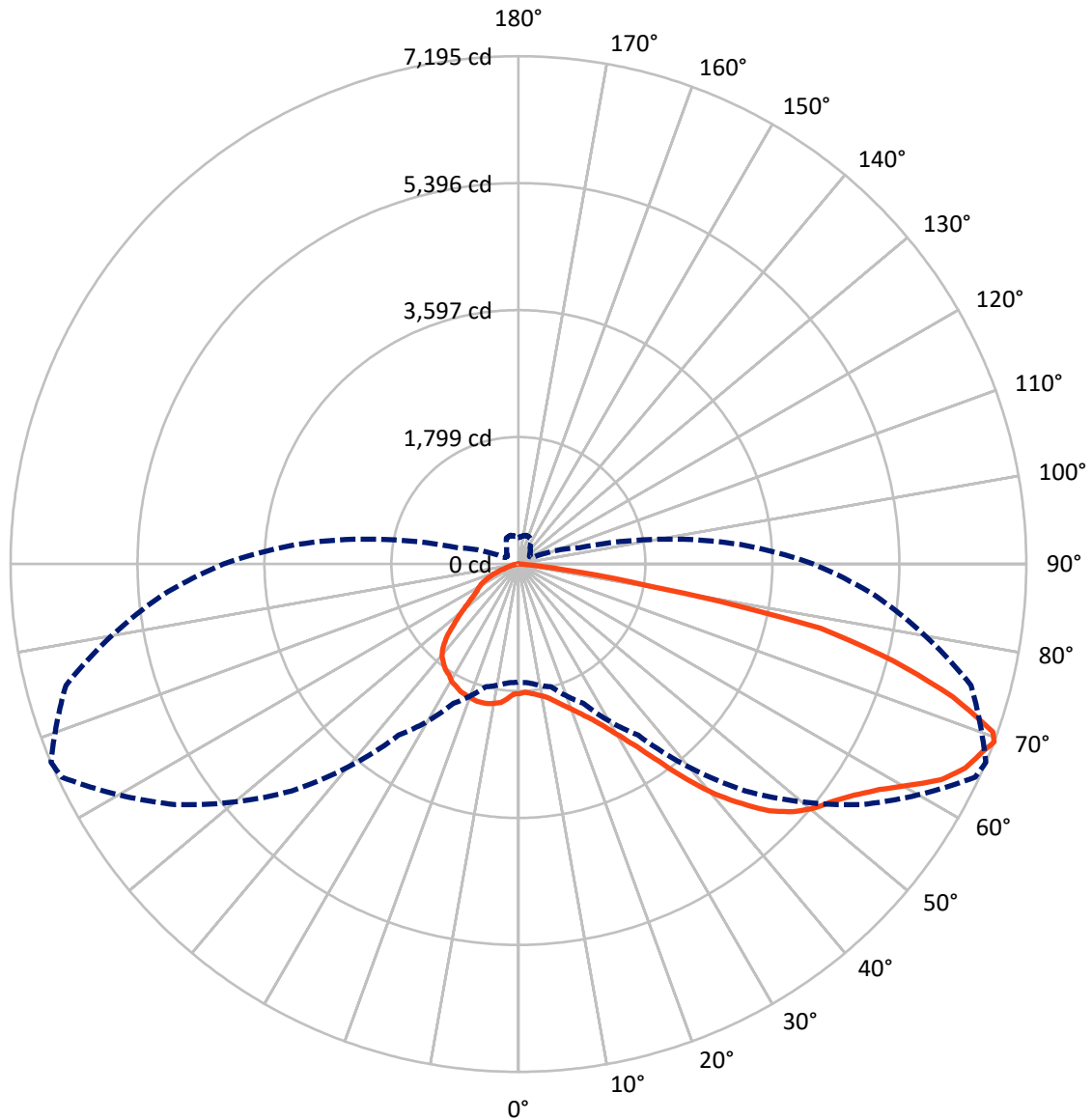
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	2764.7	0.0	2764.7
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	9512.4	0.0	9512.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	12277.0	0.0	12277.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	1.5
10°-20°	592.8	4.8
20°-30°	1021.2	8.3
30°-40°	1518.9	12.4
40°-50°	2091.8	17.0
50°-60°	2500.6	20.4
60°-70°	2638.9	21.5
70°-80°	1581.4	12.9
80°-90°	145.5	1.2
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°	12277.0	100.0
0°-180°	12277.0	100.0



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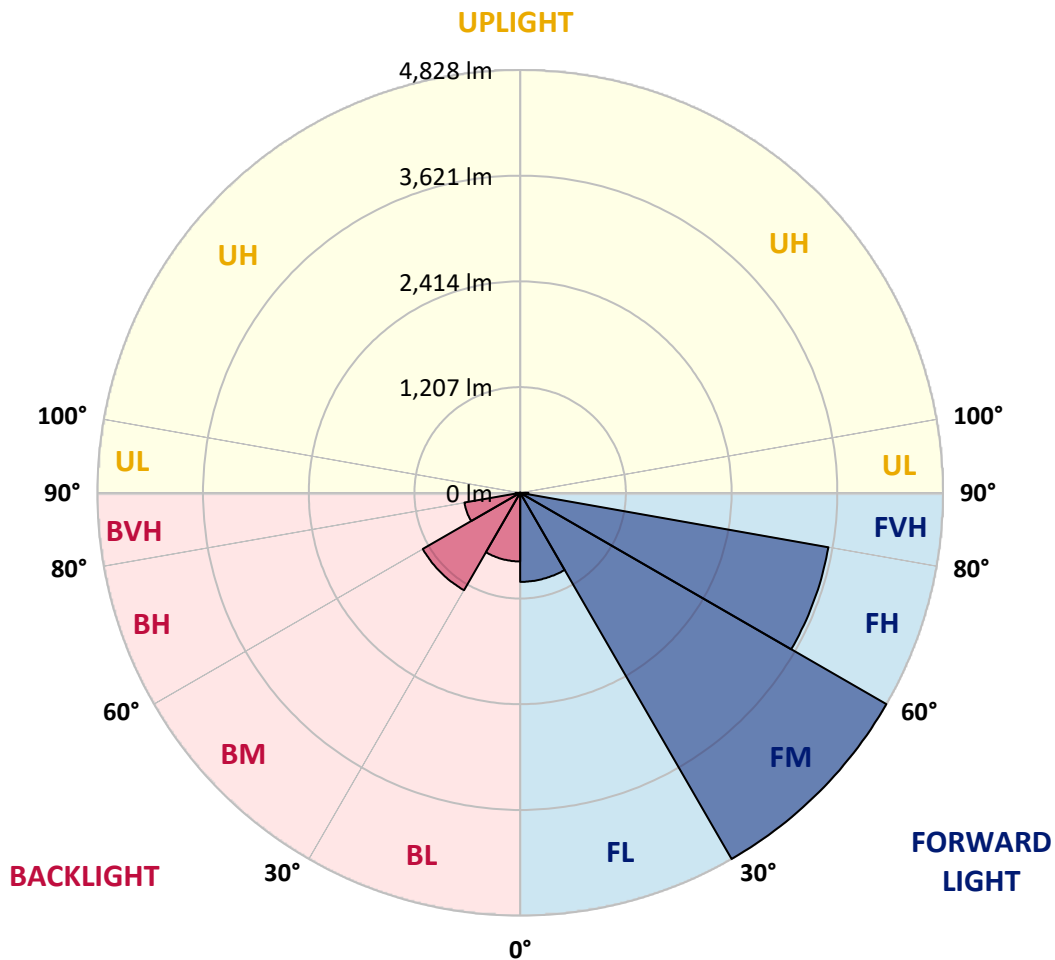
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.6	8.3			
FM (30°-60°)	4827.9	39.3			
FH (60°-80°)	3573.8	29.1			G2/5000
FVH (80°-90°)	94.1	0.8			G1/100
BL (0°-30°)	783.4	6.4	B2/1000		
BM (30°-60°)	1283.5	10.5	B2/2500		
BH (60°-80°)	646.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	51.4	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1866.5	1865.4	1859.8	1839.7	1837.5	1835.3	1821.9	1823.0	1819.6	1823.0	1824.1
5°	1917.9	1913.4	1907.8	1886.6	1878.8	1868.8	1848.7	1847.5	1839.7	1842.0	1844.2
7.5°	1981.5	1977.0	1972.6	1948.0	1940.2	1922.3	1891.1	1875.5	1868.8	1871.0	1874.3
10°	2067.5	2059.7	2053.0	2017.2	2005.0	1974.8	1936.9	1910.1	1901.1	1904.5	1913.4
12.5°	2165.7	2155.7	2144.5	2107.7	2090.9	2044.0	1999.4	1964.8	1951.4	1959.2	1965.9
15°	2267.3	2261.7	2257.2	2213.7	2190.3	2138.9	2083.1	2039.6	2027.3	2034.0	2037.3
17.5°	2401.3	2397.9	2390.1	2345.4	2300.8	2241.6	2169.1	2123.3	2111.0	2114.4	2106.5
20°	2547.5	2538.6	2534.1	2483.9	2437.0	2355.5	2271.8	2207.0	2203.7	2204.8	2180.2
22.5°	2711.6	2701.6	2692.6	2646.9	2588.8	2493.9	2384.5	2311.9	2314.2	2316.4	2261.7
25°	2879.1	2871.2	2863.4	2819.9	2761.8	2658.0	2526.3	2444.8	2443.7	2444.8	2368.9
27.5°	3054.3	3045.4	3044.3	3008.5	2950.5	2844.4	2692.6	2610.0	2610.0	2605.5	2490.6
30°	3210.6	3219.5	3219.5	3199.4	3144.7	3038.7	2895.8	2813.2	2824.4	2815.4	2669.2
32.5°	3381.4	3379.2	3394.8	3379.2	3334.5	3236.3	3116.8	3064.4	3083.3	3112.4	2966.1
35°	3480.8	3496.4	3535.5	3557.8	3536.6	3456.2	3369.1	3409.3	3435.0	3565.6	3390.3
37.5°	3595.7	3609.1	3662.7	3717.4	3726.4	3682.8	3682.8	3814.5	3864.8	4035.6	3831.3
40°	3675.0	3688.4	3746.5	3810.1	3897.2	3927.3	4005.4	4209.7	4281.2	4396.2	4159.5
42.5°	3628.1	3634.8	3759.8	3915.0	4043.4	4188.5	4312.4	4571.4	4639.5	4719.9	4429.7
45°	3545.5	3557.8	3696.2	3946.3	4167.3	4455.3	4611.6	4911.9	4990.1	4982.2	4637.3
47.5°	3454.0	3472.9	3627.0	3906.1	4273.4	4686.4	4885.1	5197.7	5242.4	5186.5	4781.3
50°	3352.4	3384.8	3548.9	3865.9	4350.4	4888.5	5088.3	5412.0	5435.5	5321.6	4907.4
52.5°	3236.3	3257.5	3439.5	3788.9	4404.0	5022.4	5250.2	5571.7	5581.7	5489.1	5040.3
55°	3075.5	3094.5	3296.6	3686.2	4411.8	5101.7	5354.0	5742.5	5776.0	5685.5	5160.9
57.5°	2902.5	2925.9	3133.6	3537.7	4340.3	5134.1	5479.0	5962.4	6027.1	5897.6	5258.0
60°	2701.6	2731.7	2941.6	3356.8	4199.7	5184.3	5712.3	6282.8	6363.2	6137.7	5350.6
62.5°	2492.8	2509.5	2702.7	3106.8	3980.9	5210.0	5924.4	6648.9	6726.0	6364.3	5394.2
65°	2199.2	2226.0	2397.9	2806.5	3672.8	5099.5	6023.8	6904.6	6960.4	6548.5	5351.8
67.5°	1887.7	1887.7	2034.0	2447.0	3262.0	4807.0	5983.6	7027.4	7094.4	6678.0	5217.8
69°	1672.3	1689.0	1800.7	2176.9	2960.5	4546.9	5940.1	7140.1	7194.8	6636.7	5063.7
70°	1507.1	1521.6	1634.3	1980.4	2736.2	4341.5	5846.3	7089.9	7130.1	6509.4	4901.9
72.5°	1108.5	1120.8	1199.0	1379.8	2057.4	3503.1	5271.4	6410.0	6434.6	5854.1	4324.7
75°	755.8	762.5	821.6	932.1	1200.1	2449.3	4306.9	5414.3	5486.8	5077.1	3541.0
77.5°	261.2	281.3	317.0	428.7	513.5	962.3	2919.2	4266.7	4375.0	3931.8	2477.2
80°	89.3	88.2	169.7	219.9	270.2	442.1	923.2	1788.4	1890.0	1620.9	892.0
82.5°	67.0	69.2	112.8	121.7	82.6	163.0	359.5	547.0	599.5	523.6	369.5
85°	42.4	41.3	50.2	52.5	38.0	69.2	87.1	88.2	91.5	79.3	80.4
87.5°	23.4	23.4	22.3	19.0	10.0	8.9	7.8	7.8	6.7	6.7	6.7
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°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1818.5	1834.2	1837.5	1842.0	1853.1	1867.6	1887.7	1887.7	1895.6	1919.0	1926.8
5°	1844.2	1863.2	1887.7	1913.4	1943.6	1975.9	2008.3	2019.5	2035.1	2066.4	2073.1
7.5°	1883.3	1904.5	1946.9	1981.5	2007.2	2039.6	2066.4	2070.8	2090.9	2119.9	2125.5
10°	1923.5	1942.4	1984.9	2002.7	2037.3	2073.1	2086.4	2093.1	2109.9	2132.2	2128.9
12.5°	1978.2	1983.7	2013.9	2026.2	2042.9	2065.2	2071.9	2071.9	2082.0	2117.7	2118.8
15°	2031.7	2031.7	2036.2	2029.5	2031.7	2042.9	2044.0	2029.5	2040.7	2058.5	2051.8
17.5°	2088.7	2073.1	2053.0	2023.9	1998.3	1997.1	1973.7	1939.1	1929.0	1954.7	1953.6
20°	2142.3	2115.5	2067.5	2001.6	1965.9	1917.9	1858.7	1838.6	1837.5	1842.0	1838.6
22.5°	2212.6	2157.9	2070.8	1980.4	1882.2	1806.2	1757.1	1689.0	1686.8	1676.7	1661.1
25°	2296.3	2218.2	2085.3	1957.0	1814.1	1715.8	1597.5	1524.9	1483.6	1492.6	1465.8
27.5°	2404.6	2309.7	2090.9	1905.6	1720.3	1554.0	1411.1	1317.3	1281.6	1265.9	1248.1
30°	2553.1	2406.8	2131.1	1862.1	1604.2	1384.3	1209.0	1072.8	1021.5	1034.9	1037.1
32.5°	2790.9	2591.0	2152.3	1776.1	1470.2	1199.0	971.2	823.9	793.7	831.7	841.7
35°	3205.0	2876.8	2202.5	1724.8	1317.3	982.4	722.3	662.0	668.7	701.1	703.3
37.5°	3612.5	3238.5	2357.7	1613.1	1134.2	727.9	560.4	528.0	560.4	601.7	607.3
40°	3898.3	3520.9	2495.0	1502.6	877.4	526.9	427.6	388.5	435.4	501.2	513.5
42.5°	4151.7	3745.3	2592.2	1349.7	600.6	376.2	307.0	317.0	386.3	434.3	445.4
45°	4333.6	3899.4	2659.1	1151.0	382.9	284.7	274.6	307.0	372.9	410.8	414.2
47.5°	4448.6	3989.8	2610.0	906.5	288.0	269.0	270.2	311.5	377.3	419.7	418.6
50°	4552.5	4037.8	2450.4	718.9	273.5	257.9	275.7	323.7	391.8	430.9	428.7
52.5°	4663.0	4084.7	2256.1	563.8	262.3	252.3	282.4	331.6	391.8	416.4	413.0
55°	4757.9	4126.0	2109.9	453.2	254.5	251.2	289.1	343.8	389.6	399.7	393.0
57.5°	4807.0	4055.7	1951.4	380.7	246.7	251.2	293.6	341.6	403.0	435.4	428.7
60°	4780.2	3989.8	1823.0	353.9	235.5	250.1	295.8	366.2	494.5	524.7	522.4
62.5°	4731.1	3917.3	1643.3	318.2	223.3	252.3	294.7	388.5	569.3	559.3	531.4
65°	4630.6	3772.1	1397.7	276.9	211.0	256.8	294.7	437.6	496.8	485.6	473.3
67.5°	4416.3	3458.4	1118.6	237.8	197.6	243.4	290.2	416.4	427.6	398.5	384.0
69°	4176.2	3159.3	885.3	216.6	189.8	236.7	289.1	401.9	420.9	389.6	372.9
70°	3988.7	2925.9	715.6	200.9	182.0	234.4	288.0	391.8	417.5	382.9	365.0
72.5°	3322.2	2364.4	375.1	161.9	155.2	213.2	278.0	382.9	418.6	367.3	341.6
75°	2610.0	1682.3	248.9	123.9	119.4	186.4	254.5	368.4	394.1	330.4	291.4
77.5°	1609.8	736.8	171.9	86.0	87.1	145.1	218.8	329.3	397.4	333.8	283.6
80°	467.7	284.7	109.4	58.0	53.6	86.0	171.9	283.6	377.3	342.7	309.2
82.5°	270.2	185.3	73.7	36.8	32.4	39.1	108.3	219.9	332.7	313.7	320.4
85°	61.4	51.4	26.8	17.9	17.9	22.3	36.8	127.3	230.0	269.0	303.6
87.5°	6.7	6.7	6.7	6.7	6.7	5.6	6.7	34.6	100.5	142.9	166.3
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)