

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: P233930

Luminaire Tested: **VERD-G-C029-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233930
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-C029-D-U-T3-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12691 lumens
Efficiency: N/A
Efficacy: 104.9 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

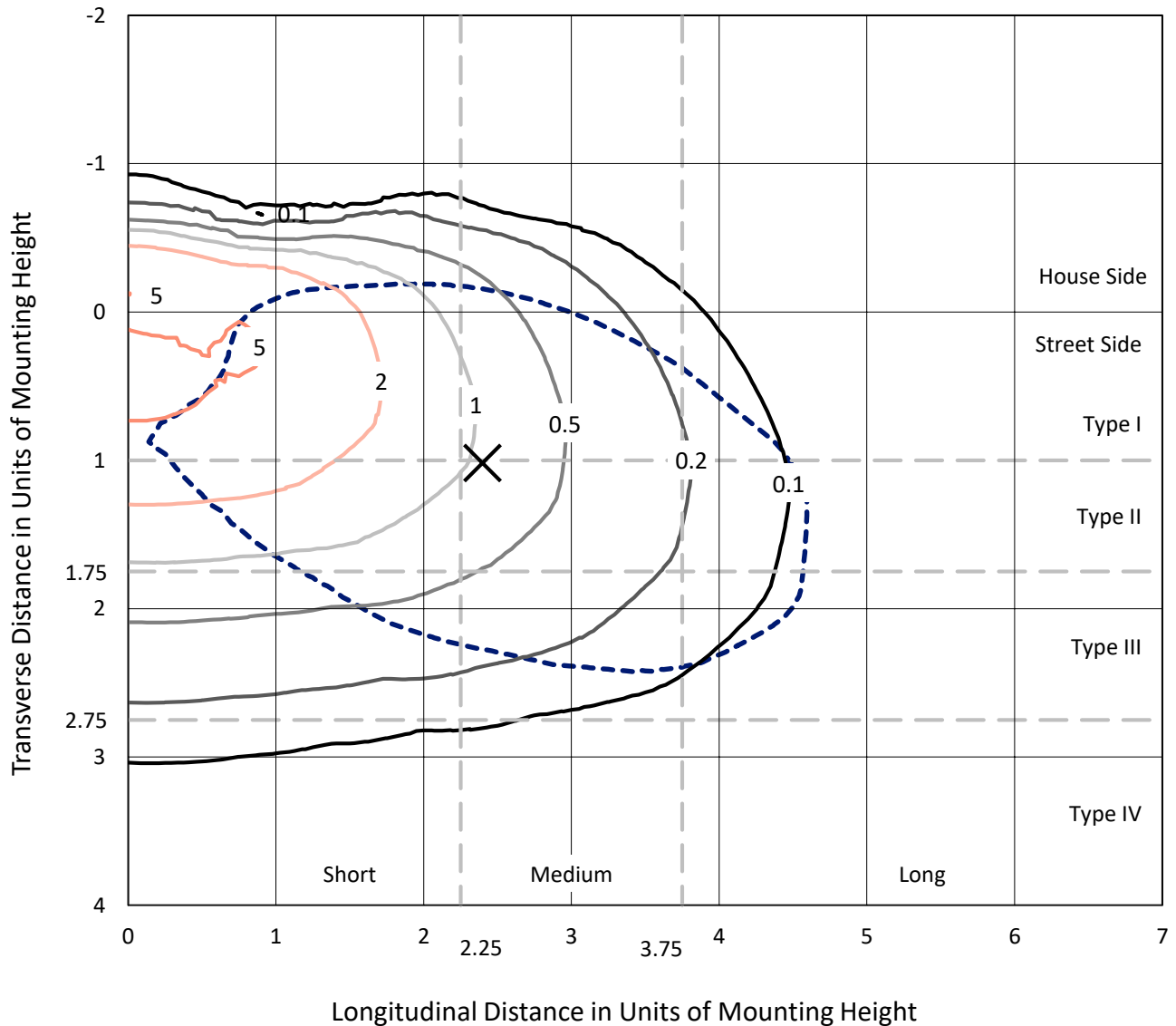
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

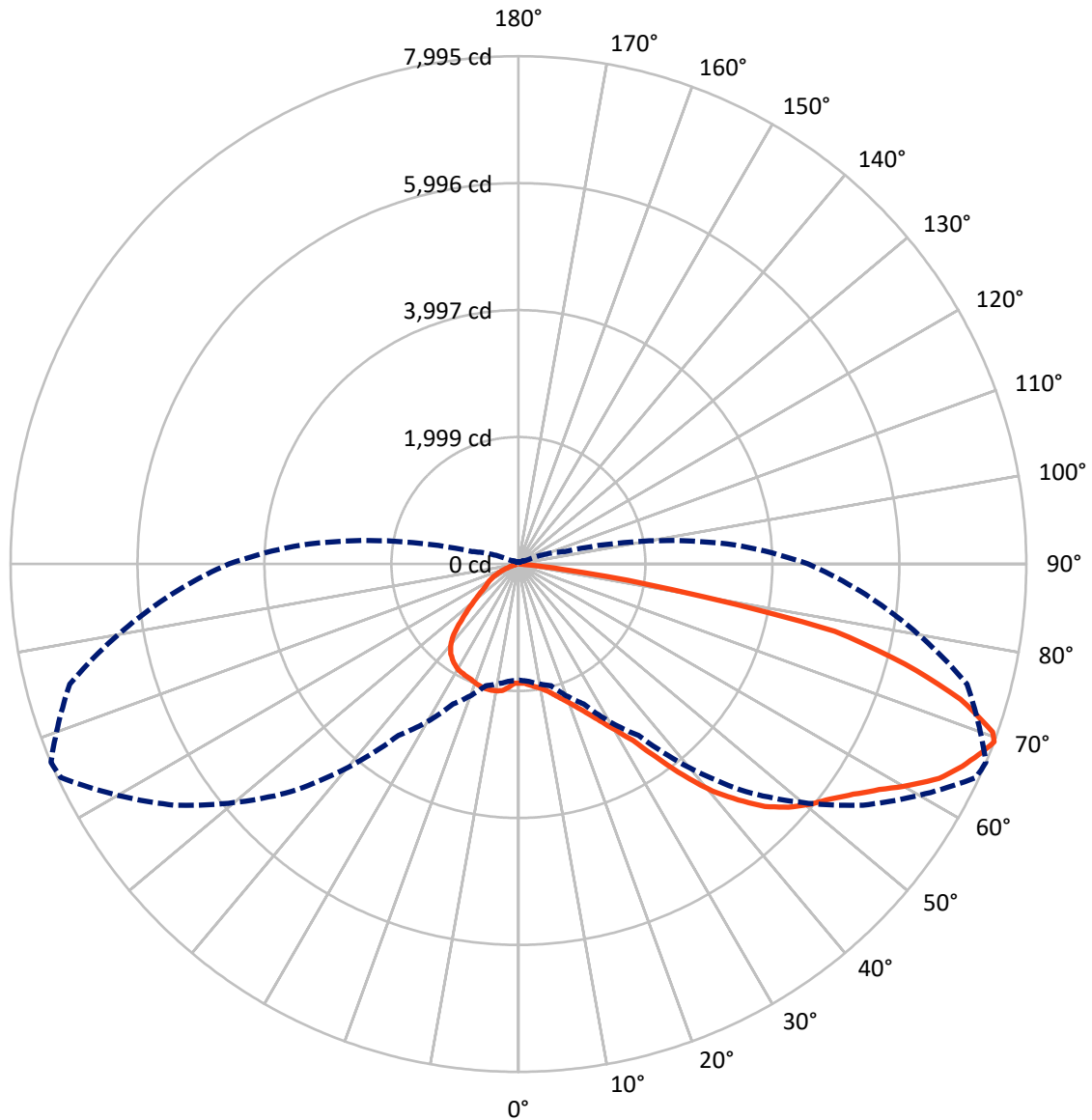
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	2287.8	0.0	2287.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10403.2	0.0	10403.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	12691.0	0.0	12691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	1.5
10°-20°	595.8	4.7
20°-30°	1016.9	8.0
30°-40°	1537.6	12.1
40°-50°	2172.2	17.1
50°-60°	2625.1	20.7
60°-70°	2770.0	21.8
70°-80°	1667.5	13.1
80°-90°	116.5	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°	12691.0	100.0
0°-180°	12691.0	100.0

Coefficient of Utilization



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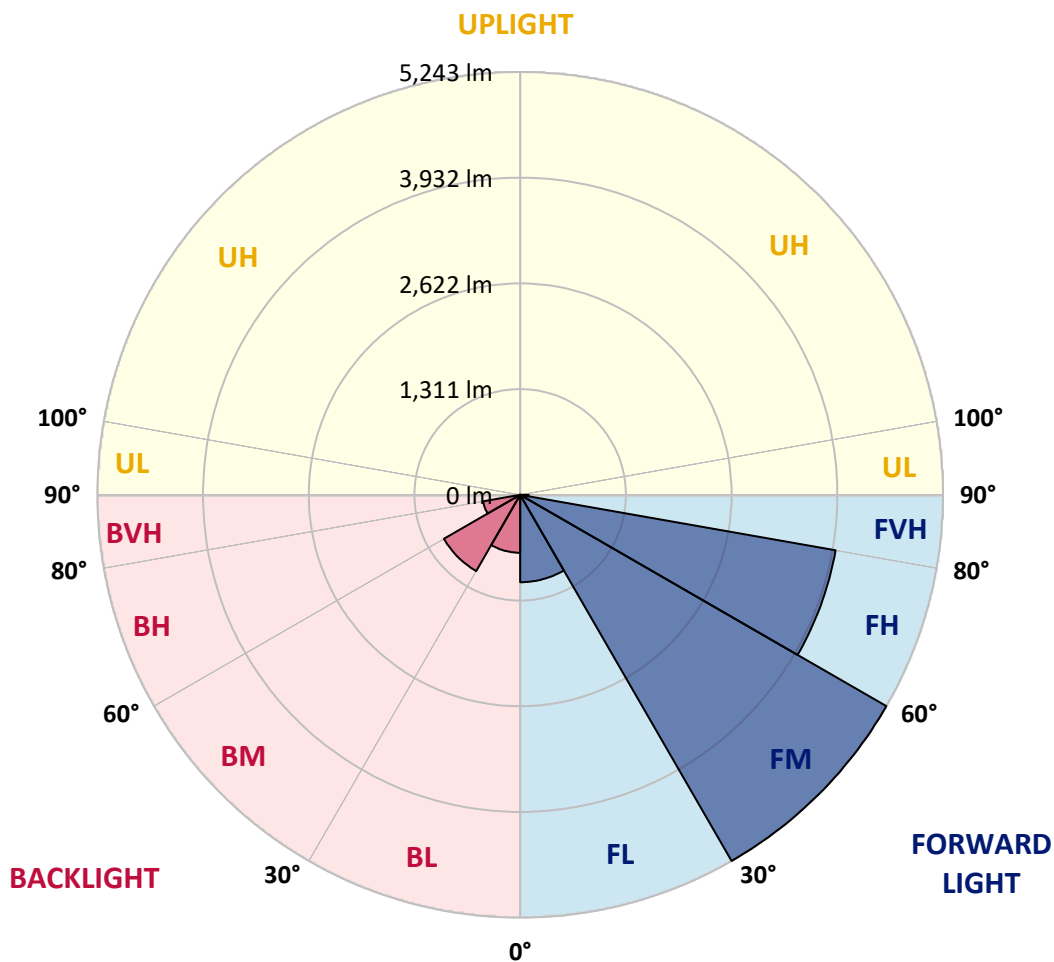
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.7	8.5			
FM	(30°-60°)	5243.2	41.3			
FH	(60°-80°)	3971.0	31.3			G2/5000
FVH	(80°-90°)	105.2	0.8			G2/225
BL	(0°-30°)	718.5	5.7	B2/1000		
BM	(30°-60°)	1091.6	8.6	B2/2500		
BH	(60°-80°)	466.4	3.7	B1/500		G1/500
BVH	(80°-90°)	11.3	0.1			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°	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8
2.5°	1925.3	1922.3	1922.3	1905.1	1888.9	1884.9	1883.9	1878.8	1879.8	1872.8	1865.7
5°	1981.0	1981.0	1978.9	1956.7	1939.5	1928.4	1921.3	1912.2	1913.2	1908.2	1902.1
7.5°	2064.9	2065.9	2061.9	2032.5	2015.3	1988.0	1971.9	1954.7	1953.7	1947.6	1949.6
10°	2168.0	2171.1	2165.0	2127.6	2098.3	2060.8	2026.5	1996.1	1994.1	1987.0	1993.1
12.5°	2284.3	2288.4	2273.2	2234.8	2201.4	2142.8	2101.3	2060.8	2054.8	2053.8	2057.8
15°	2417.8	2419.8	2414.8	2358.1	2317.7	2264.1	2196.4	2144.8	2138.7	2139.7	2134.7
17.5°	2566.5	2571.5	2560.4	2509.8	2456.2	2382.4	2301.5	2237.8	2234.8	2231.7	2209.5
20°	2724.2	2729.3	2722.2	2674.7	2610.9	2517.9	2418.8	2346.0	2345.0	2337.9	2286.3
22.5°	2902.2	2909.3	2905.2	2847.6	2779.8	2678.7	2555.3	2479.5	2477.5	2455.2	2377.4
25°	3095.3	3093.3	3097.3	3035.7	2971.9	2865.8	2713.1	2634.2	2634.2	2606.9	2491.6
27.5°	3282.4	3281.4	3288.5	3245.0	3178.2	3078.1	2894.1	2814.2	2821.3	2781.8	2629.1
30°	3464.4	3464.4	3481.6	3453.3	3403.7	3298.6	3118.6	3034.6	3043.7	3002.3	2803.1
32.5°	3634.3	3642.4	3671.7	3654.5	3617.1	3522.0	3368.3	3291.5	3312.7	3329.9	3126.7
35°	3759.7	3767.8	3835.5	3841.6	3832.5	3768.8	3654.5	3704.1	3729.3	3864.8	3638.3
37.5°	3869.9	3880.0	3960.9	4011.5	4040.8	4001.4	4008.4	4174.3	4221.8	4381.6	4075.2
40°	3950.8	3973.0	4052.9	4122.7	4225.9	4272.4	4387.6	4623.3	4700.1	4763.8	4375.5
42.5°	3895.2	3910.4	4050.9	4238.0	4388.7	4552.5	4739.5	5019.7	5077.3	5057.1	4640.4
45°	3813.3	3831.5	3979.1	4268.3	4518.1	4844.7	5073.2	5376.6	5442.3	5330.1	4869.0
47.5°	3721.3	3746.5	3906.3	4227.9	4626.3	5113.7	5375.6	5683.0	5721.4	5573.8	5061.1
50°	3628.2	3656.5	3837.5	4194.5	4710.2	5338.2	5596.0	5932.8	5943.9	5776.0	5234.0
52.5°	3502.8	3532.2	3730.4	4124.7	4768.9	5485.8	5789.2	6138.1	6145.1	5994.5	5397.8
55°	3344.1	3381.5	3590.8	4021.6	4783.0	5571.8	5911.5	6351.4	6398.9	6231.1	5532.3
57.5°	3157.0	3191.4	3421.9	3872.9	4712.2	5601.1	6082.4	6633.5	6699.3	6470.7	5643.6
60°	2941.6	2981.0	3212.6	3680.8	4569.7	5683.0	6365.6	7032.0	7071.4	6721.5	5741.7
62.5°	2721.2	2749.5	2959.8	3410.8	4347.2	5732.6	6616.4	7406.1	7432.4	6963.2	5800.3
65°	2407.7	2443.1	2648.4	3101.4	4026.6	5637.5	6712.4	7661.9	7678.1	7165.4	5772.0
67.5°	2066.9	2095.2	2244.9	2728.2	3606.0	5336.2	6673.0	7832.8	7884.4	7323.2	5643.6
69°	1825.2	1853.5	1983.0	2429.9	3293.5	5069.2	6617.4	7949.1	7994.6	7312.1	5479.8
70°	1637.2	1665.5	1787.8	2207.5	3048.8	4843.7	6529.4	7890.5	7919.8	7187.7	5320.0
72.5°	1171.0	1199.3	1299.4	1552.2	2309.6	3981.1	5984.3	7239.3	7278.7	6590.1	4754.7
75°	612.8	680.5	860.5	1003.1	1368.2	2803.1	4975.2	6226.0	6283.7	5783.1	3910.4
77.5°	78.9	82.9	242.7	407.5	565.3	1182.1	3534.2	4999.4	5090.4	4628.3	2704.0
80°	63.7	64.7	83.9	203.3	281.1	479.3	1253.9	2339.9	2450.2	2056.8	994.0
82.5°	44.5	46.5	65.7	107.2	92.0	174.9	435.8	661.3	681.6	589.5	396.4
85°	25.3	25.3	31.3	41.5	29.3	65.7	90.0	96.1	86.0	84.9	63.7
87.5°	7.1	8.1	9.1	7.1	3.0	3.0	4.0	4.0	4.0	3.0	3.0
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°	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8	1876.8
2.5°	1876.8	1874.8	1875.8	1879.8	1885.9	1908.2	1923.3	1925.3	1932.4	1958.7	1955.7
5°	1909.2	1921.3	1928.4	1949.6	1963.8	1994.1	2012.3	2014.3	2024.4	2051.7	2052.8
7.5°	1954.7	1974.9	1985.0	2009.3	2014.3	2028.5	2033.5	2028.5	2029.5	2053.8	2055.8
10°	1994.1	2019.4	2019.4	2025.5	2016.4	2017.4	2001.2	1986.0	1977.9	1999.2	2004.2
12.5°	2054.8	2061.9	2045.7	2027.5	2000.2	1975.9	1948.6	1924.3	1905.1	1917.3	1910.2
15°	2117.5	2106.4	2066.9	2019.4	1970.9	1929.4	1872.8	1837.4	1804.0	1811.1	1805.0
17.5°	2180.2	2143.8	2082.1	2003.2	1932.4	1853.5	1774.7	1719.1	1658.4	1653.3	1644.2
20°	2240.8	2188.3	2086.1	1969.8	1870.7	1759.5	1637.2	1542.1	1452.1	1428.8	1413.7
22.5°	2313.7	2237.8	2091.2	1937.5	1804.0	1652.3	1467.3	1319.6	1222.6	1190.2	1175.0
25°	2406.7	2306.6	2105.3	1913.2	1736.2	1519.9	1266.0	1097.2	992.0	936.4	931.3
27.5°	2516.9	2389.5	2129.6	1881.9	1640.2	1342.9	1057.7	881.8	769.5	712.9	694.7
30°	2661.5	2492.6	2151.9	1857.6	1504.7	1149.7	839.3	643.1	509.7	473.2	454.0
32.5°	2935.5	2660.5	2180.2	1801.0	1344.9	938.4	594.6	396.4	305.4	281.1	281.1
35°	3381.5	3029.6	2251.0	1723.1	1152.8	683.6	357.0	222.5	182.0	167.9	160.8
37.5°	3784.0	3401.7	2427.9	1602.8	919.2	404.5	204.3	137.5	124.4	126.4	126.4
40°	4068.1	3656.5	2623.1	1440.0	623.9	216.4	129.4	110.2	112.2	113.3	113.3
42.5°	4311.8	3873.9	2730.3	1246.8	339.8	140.6	111.2	100.1	103.1	102.1	101.1
45°	4516.1	4050.9	2765.7	980.9	164.8	124.4	101.1	92.0	92.0	91.0	91.0
47.5°	4691.0	4207.6	2699.9	729.1	133.5	114.3	96.1	84.9	83.9	89.0	89.0
50°	4850.8	4329.0	2536.1	552.1	129.4	105.2	91.0	78.9	79.9	87.0	87.0
52.5°	4984.3	4400.8	2293.4	413.6	120.3	97.1	83.9	73.8	73.8	80.9	80.9
55°	5083.4	4400.8	2108.4	309.4	115.3	89.0	77.9	70.8	66.7	68.8	69.8
57.5°	5132.9	4317.9	1959.7	250.8	109.2	80.9	71.8	61.7	54.6	56.6	55.6
60°	5119.8	4270.3	1788.8	223.5	102.1	74.8	63.7	52.6	45.5	43.5	43.5
62.5°	5095.5	4216.7	1575.5	194.2	95.1	69.8	52.6	42.5	38.4	36.4	37.4
65°	5003.5	4042.8	1305.5	161.8	88.0	67.8	44.5	37.4	33.4	31.3	31.3
67.5°	4781.0	3729.3	986.9	136.5	81.9	54.6	38.4	32.4	28.3	26.3	26.3
69°	4560.6	3430.0	757.4	124.4	77.9	49.5	35.4	29.3	26.3	23.3	23.3
70°	4370.5	3198.5	593.6	116.3	74.8	47.5	34.4	28.3	25.3	22.2	22.2
72.5°	3721.3	2537.1	301.3	101.1	62.7	41.5	30.3	25.3	21.2	18.2	18.2
75°	2887.0	1748.4	199.2	79.9	48.5	37.4	27.3	22.2	18.2	15.2	14.2
77.5°	1737.3	683.6	142.6	51.6	31.3	29.3	22.2	18.2	15.2	12.1	12.1
80°	479.3	293.3	96.1	34.4	18.2	19.2	16.2	13.1	11.1	9.1	9.1
82.5°	288.2	190.1	63.7	22.2	12.1	12.1	9.1	9.1	7.1	7.1	7.1
85°	49.5	38.4	15.2	9.1	7.1	7.1	5.1	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	4.0	4.0	3.0	2.0	1.0	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)