

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: P233956

Luminaire Tested: **VERD-G-C02H-D-U-T4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02H-D-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1370mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16764 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 155
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

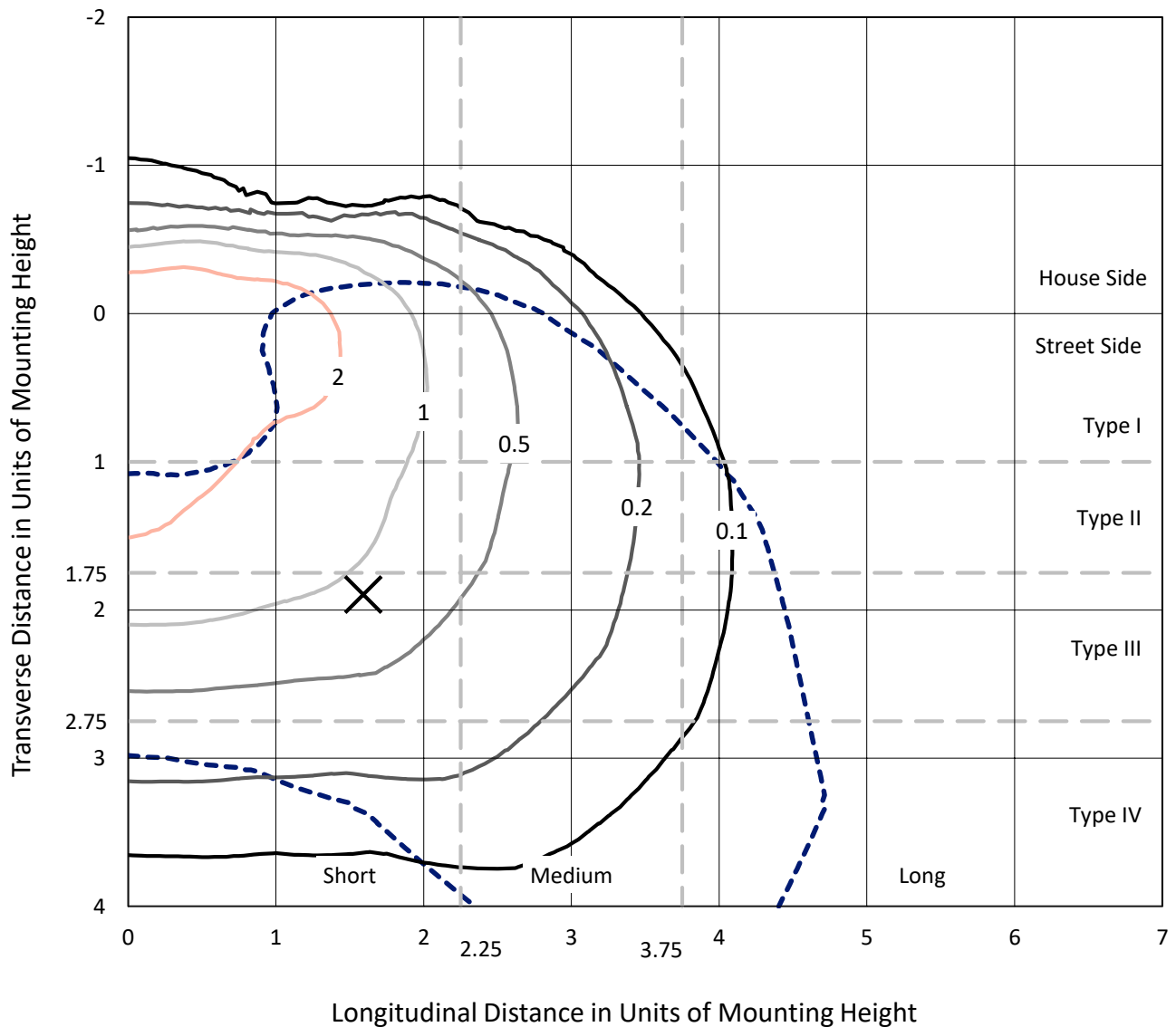


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Iso-Footcandle Lines of Horizontal Illumination

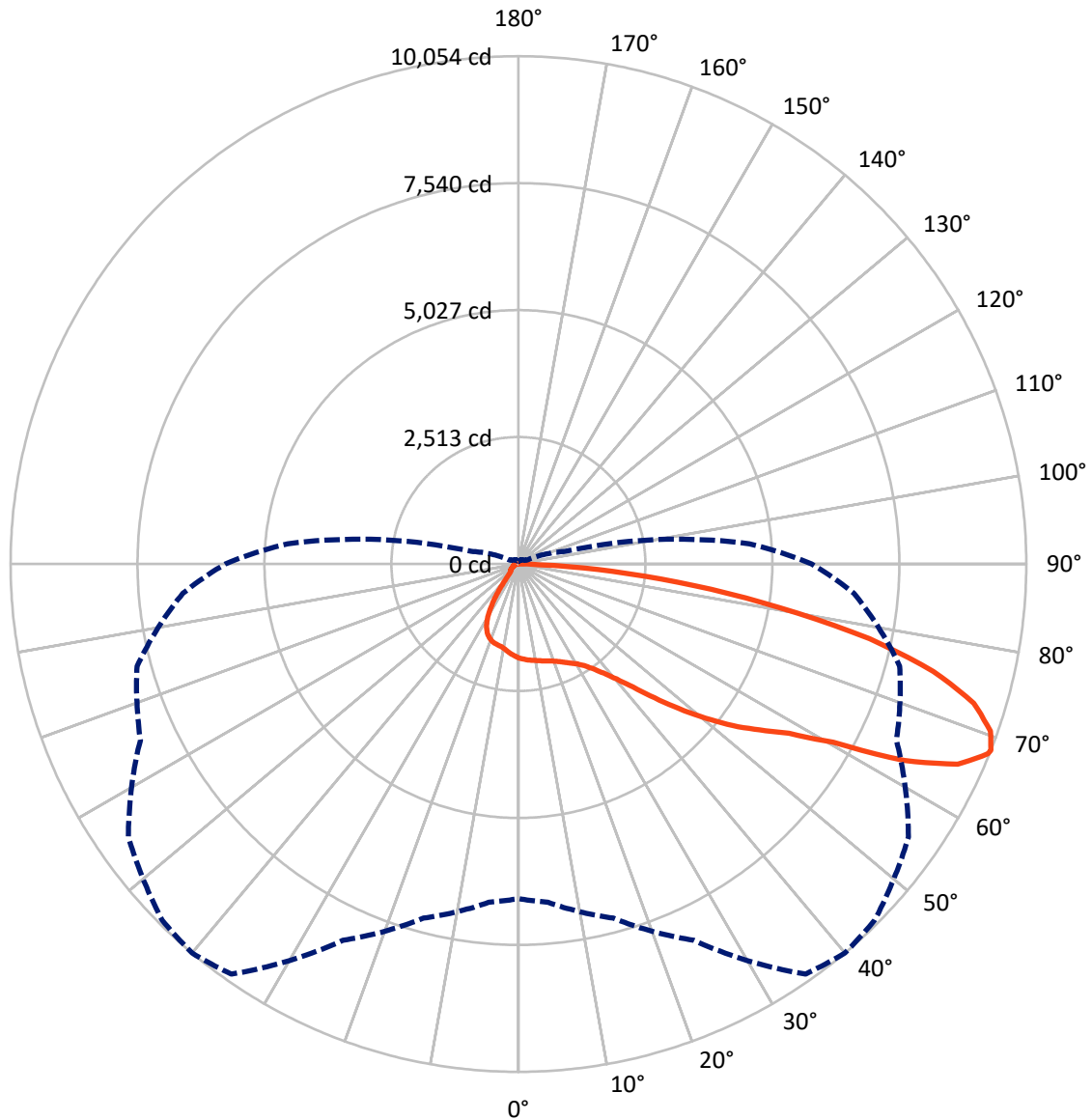
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2719.4	0.0	2719.4
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	14044.5	0.0	14044.5
	% Fixture	83.8	0.0	83.8
Total	Lumens	16764.0	0.0	16764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.1
10°-20°	529.3	3.2
20°-30°	888.4	5.3
30°-40°	1315.7	7.8
40°-50°	2225.8	13.3
50°-60°	3397.0	20.3
60°-70°	4447.9	26.5
70°-80°	3197.8	19.1
80°-90°	585.4	3.5
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°	16764.0	100.0
0°-180°	16764.0	100.0

Coefficient of Utilization



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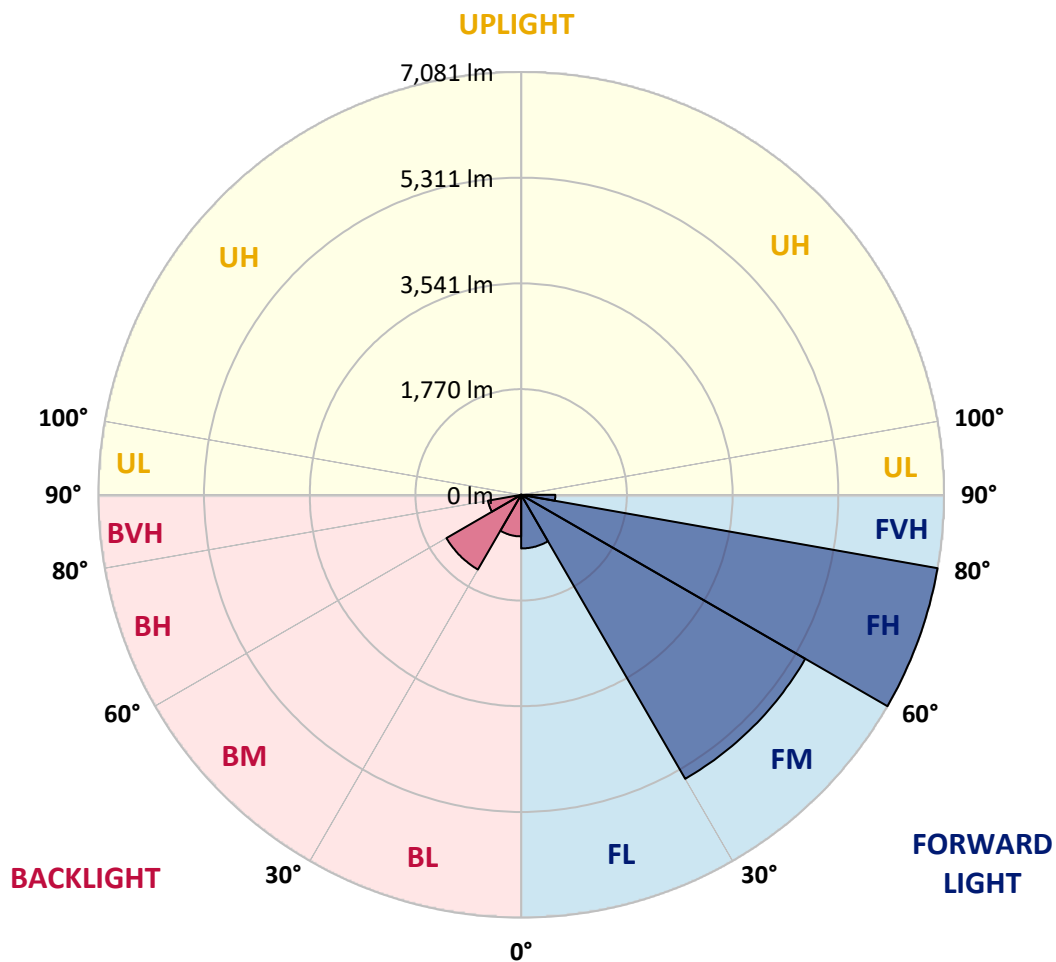
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.7	5.4			
FM (30°-60°)	5493.0	32.8			
FH (60°-80°)	7081.4	42.2			G3/7500
FVH (80°-90°)	571.5	3.4			G4/750
BL (0°-30°)	695.8	4.2	B2/1000		
BM (30°-60°)	1445.4	8.6	B2/2500		
BH (60°-80°)	564.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8
2.5°	1921.8	1926.0	1920.4	1906.3	1890.9	1882.5	1881.1	1879.6	1872.6	1862.8	1848.8
5°	1941.4	1942.8	1937.2	1926.0	1911.9	1909.1	1904.9	1906.3	1902.1	1892.3	1876.8
7.5°	1949.8	1952.6	1945.6	1934.4	1923.2	1923.2	1921.8	1926.0	1923.2	1919.0	1900.7
10°	1947.0	1951.2	1947.0	1942.8	1938.6	1942.8	1940.0	1949.8	1951.2	1951.2	1930.2
12.5°	1942.8	1948.4	1949.8	1954.0	1961.1	1965.3	1970.9	1992.0	2001.8	2008.8	1992.0
15°	1947.0	1949.8	1961.1	1968.1	1982.1	1992.0	2004.6	2039.7	2056.5	2076.2	2067.8
17.5°	1965.3	1972.3	1989.1	1996.2	2010.2	2017.2	2032.7	2076.2	2109.9	2145.0	2150.6
20°	2004.6	2008.8	2036.9	2039.7	2046.7	2053.7	2070.6	2118.3	2168.8	2219.4	2233.4
22.5°	2048.1	2057.9	2084.6	2080.4	2094.4	2097.2	2112.7	2164.6	2234.8	2296.6	2327.5
25°	2093.0	2101.4	2128.1	2130.9	2147.8	2159.0	2177.2	2227.8	2317.6	2396.2	2451.0
27.5°	2130.9	2147.8	2173.0	2175.8	2208.1	2222.2	2248.8	2306.4	2414.5	2511.3	2601.2
30°	2201.1	2205.3	2229.2	2237.6	2281.1	2293.8	2324.6	2397.6	2529.6	2650.3	2790.7
32.5°	2288.1	2286.7	2309.2	2323.2	2376.6	2399.0	2438.4	2522.6	2668.6	2818.8	3018.1
35°	2448.2	2434.1	2448.2	2462.2	2524.0	2547.8	2590.0	2716.3	2887.6	3143.0	3388.7
37.5°	2816.0	2794.9	2765.4	2695.2	2710.7	2741.6	2803.3	2974.6	3227.3	3701.7	3939.0
40°	3453.3	3407.0	3283.4	3098.1	2988.6	2991.4	3049.0	3273.6	3644.2	4341.9	4520.1
42.5°	4030.2	3997.9	3849.1	3595.1	3342.4	3328.3	3348.0	3610.5	4099.0	4935.7	5028.3
45°	4573.5	4588.9	4372.7	4173.4	3871.6	3779.0	3755.1	3969.9	4603.0	5464.9	5473.3
47.5°	5076.0	5101.3	4840.2	4652.1	4354.5	4274.5	4200.1	4347.5	5078.8	5915.5	5846.7
50°	5616.5	5636.1	5274.0	5119.6	4869.7	4795.3	4739.1	4803.7	5566.0	6333.8	6179.4
52.5°	6363.3	6253.8	5799.0	5543.5	5321.7	5316.1	5272.6	5313.3	6120.4	6710.0	6432.1
55°	7244.9	6958.5	6475.6	6067.1	5782.1	5797.6	5745.6	5813.0	6669.3	7032.9	6666.5
57.5°	7556.5	7549.5	7324.9	6933.2	6354.9	6319.8	6229.9	6305.7	7143.8	7334.7	6832.2
60°	7988.9	8026.8	8052.0	7816.2	7482.1	7163.4	6863.0	6856.0	7586.0	7609.8	6913.6
62.5°	8268.2	8303.3	8499.8	8469.0	8675.3	8570.0	8227.5	7468.1	7924.3	7788.1	6944.5
65°	7746.0	7833.0	8328.6	8706.2	9409.5	9556.9	9507.7	8408.6	8154.5	7840.1	6886.9
67.5°	6801.3	6915.0	7458.2	8341.2	9864.3	10028.5	9938.7	9356.1	8254.2	7817.6	6728.3
68°	6624.4	6722.7	7256.1	8219.1	9910.6	10053.8	9972.4	9426.3	8258.4	7814.8	6667.9
70°	5773.7	5853.7	6374.5	7593.0	9781.5	9914.8	9903.6	9492.3	8221.9	7727.8	6262.2
72.5°	4479.4	4559.4	5021.3	6297.3	9184.9	9429.1	9419.3	9228.4	8154.5	7284.2	5250.1
75°	3238.5	3326.9	3748.1	4838.8	7948.2	8485.8	8593.9	8776.4	7454.0	6130.3	3735.4
77.5°	2338.7	2403.3	2766.8	3655.4	6492.4	7107.3	7326.3	7510.2	6100.8	4468.2	1777.2
80°	1559.6	1605.9	1956.9	2717.7	4890.7	5252.9	5488.7	5181.3	3471.5	1615.7	192.3
82.5°	960.2	989.7	1266.2	1906.3	3383.1	3496.8	3498.2	2764.0	1118.8	154.4	103.9
85°	515.2	525.0	687.8	1040.2	1787.0	1872.6	1838.9	1160.9	226.0	82.8	56.2
87.5°	82.8	89.8	216.2	390.2	551.7	425.3	272.3	85.6	22.5	12.6	8.4
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°	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8
2.5°	1855.8	1851.6	1840.3	1834.7	1820.7	1824.9	1824.9	1813.7	1819.3	1841.7	1838.9
5°	1872.6	1874.0	1847.4	1833.3	1802.4	1794.0	1781.4	1764.5	1763.1	1778.6	1780.0
7.5°	1886.7	1893.7	1855.8	1827.7	1785.6	1756.1	1730.8	1701.4	1694.4	1704.2	1704.2
10°	1909.1	1916.1	1868.4	1829.1	1767.3	1719.6	1676.1	1638.2	1622.8	1622.8	1624.2
12.5°	1968.1	1963.9	1909.1	1848.8	1775.8	1700.0	1631.2	1580.6	1544.1	1542.7	1537.1
15°	2049.5	2034.1	1980.7	1889.5	1795.4	1698.6	1603.1	1524.5	1461.3	1444.5	1437.5
17.5°	2136.5	2116.9	2052.3	1941.4	1826.3	1697.2	1570.8	1461.3	1356.0	1315.3	1302.7
20°	2230.6	2206.7	2140.8	2001.8	1857.2	1687.3	1523.1	1370.1	1226.9	1149.7	1130.0
22.5°	2334.5	2314.8	2234.8	2063.5	1878.2	1666.3	1448.7	1255.0	1072.5	961.6	953.2
25°	2469.2	2451.0	2333.1	2118.3	1879.6	1627.0	1350.4	1107.6	878.8	748.2	721.5
27.5°	2630.7	2598.4	2411.7	2152.0	1857.2	1558.2	1222.7	911.0	652.8	543.3	540.5
30°	2806.1	2747.2	2474.8	2160.4	1806.7	1448.7	1047.2	669.6	463.2	388.8	388.8
32.5°	3012.5	2904.4	2539.4	2146.4	1723.8	1297.1	801.6	464.6	318.7	283.6	283.6
35°	3314.3	3147.3	2622.2	2111.3	1607.3	1087.9	569.9	307.4	251.3	247.1	247.1
37.5°	3791.6	3513.6	2734.5	2052.3	1447.3	829.6	370.6	237.2	240.0	240.0	238.6
40°	4299.8	3937.6	2889.0	1958.3	1246.5	572.7	242.9	224.6	228.8	231.6	230.2
42.5°	4758.8	4340.5	3057.4	1831.9	1009.3	360.8	221.8	216.2	213.4	216.2	217.6
45°	5156.1	4690.0	3227.3	1667.7	745.4	235.8	216.2	203.5	195.1	196.5	197.9
47.5°	5495.8	4965.1	3342.4	1495.0	494.1	209.2	209.2	186.7	178.3	178.3	178.3
50°	5793.4	5209.4	3412.6	1288.7	294.8	206.4	196.5	171.3	162.8	161.4	162.8
52.5°	6009.5	5380.7	3404.1	1037.4	197.9	199.3	179.7	157.2	147.4	150.2	151.6
55°	6180.8	5488.7	3329.7	759.4	185.3	186.7	167.0	141.8	134.8	136.2	136.2
57.5°	6288.9	5515.4	3178.1	494.1	181.1	167.0	150.2	126.3	117.9	117.9	117.9
60°	6324.0	5501.4	2971.8	315.8	179.7	150.2	136.2	113.7	105.3	105.3	105.3
62.5°	6294.5	5420.0	2622.2	227.4	167.0	140.4	123.5	101.1	92.6	89.8	89.8
65°	6189.2	5202.4	2021.4	188.1	150.2	129.1	112.3	91.2	80.0	75.8	74.4
67.5°	5881.8	4730.7	1176.4	176.9	136.2	117.9	103.9	82.8	70.2	63.2	61.8
68°	5801.8	4590.3	967.2	175.5	136.2	116.5	102.5	80.0	67.4	60.4	59.0
70°	5229.0	3703.1	277.9	167.0	133.4	112.3	94.1	73.0	60.4	51.9	50.5
72.5°	3937.6	2170.2	174.1	148.8	132.0	99.7	91.2	73.0	53.3	44.9	42.1
75°	2198.3	494.1	147.4	110.9	123.5	98.3	89.8	66.0	47.7	36.5	35.1
77.5°	452.0	143.2	126.3	77.2	94.1	85.6	75.8	56.2	43.5	28.1	26.7
80°	127.7	106.7	112.3	56.2	53.3	60.4	56.2	49.1	32.3	21.1	21.1
82.5°	82.8	78.6	101.1	37.9	28.1	28.1	36.5	29.5	28.1	16.8	16.8
85°	50.5	66.0	49.1	16.8	14.0	11.2	12.6	12.6	16.8	11.2	11.2
87.5°	7.0	7.0	7.0	7.0	7.0	5.6	4.2	4.2	4.2	5.6	5.6
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)