

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: P233931

Luminaire Tested: **VERD-G-C02-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233931
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-C02-D-U-T3-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1175mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14002 lumens
Efficiency: N/A
Efficacy: 101.5 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): 138
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

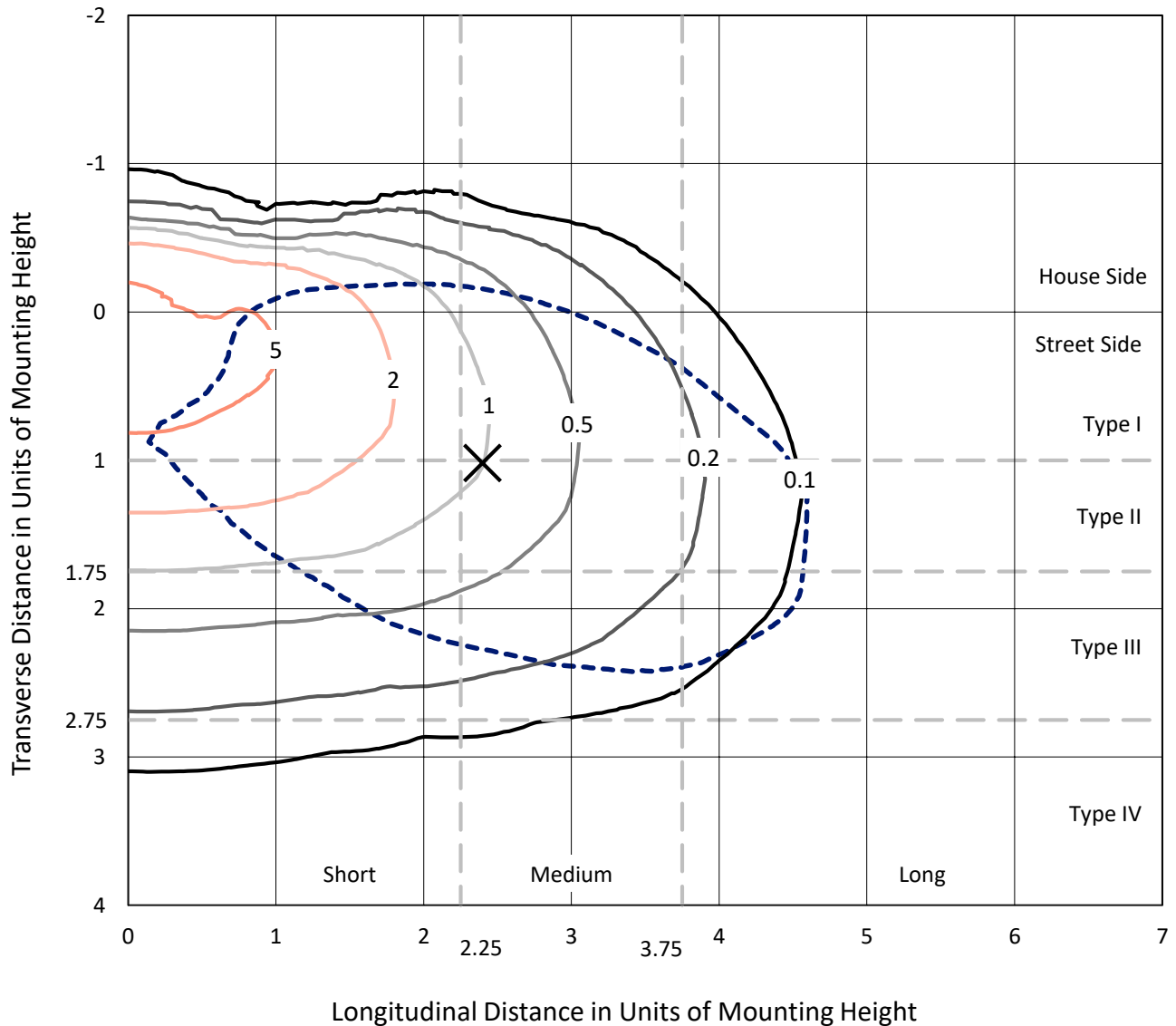


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

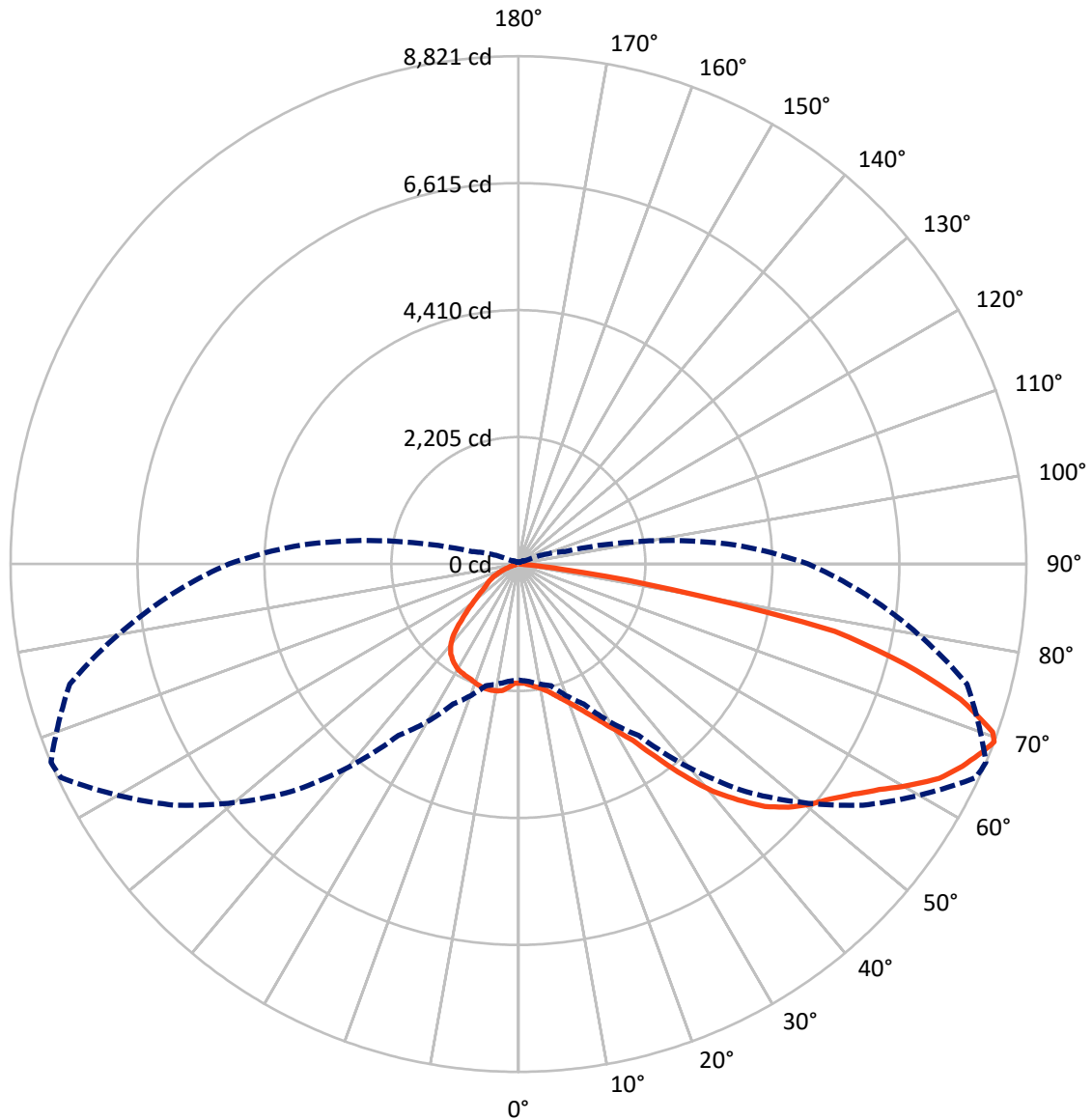


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - Semi-Cutoff

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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	2524.2	0.0	2524.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11477.8	0.0	11477.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	14002.0	0.0	14002.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	1.5
10°-20°	657.3	4.7
20°-30°	1122.0	8.0
30°-40°	1696.4	12.1
40°-50°	2396.5	17.1
50°-60°	2896.3	20.7
60°-70°	3056.1	21.8
70°-80°	1839.7	13.1
80°-90°	128.6	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°	14002.0	100.0
0°-180°	14002.0	100.0



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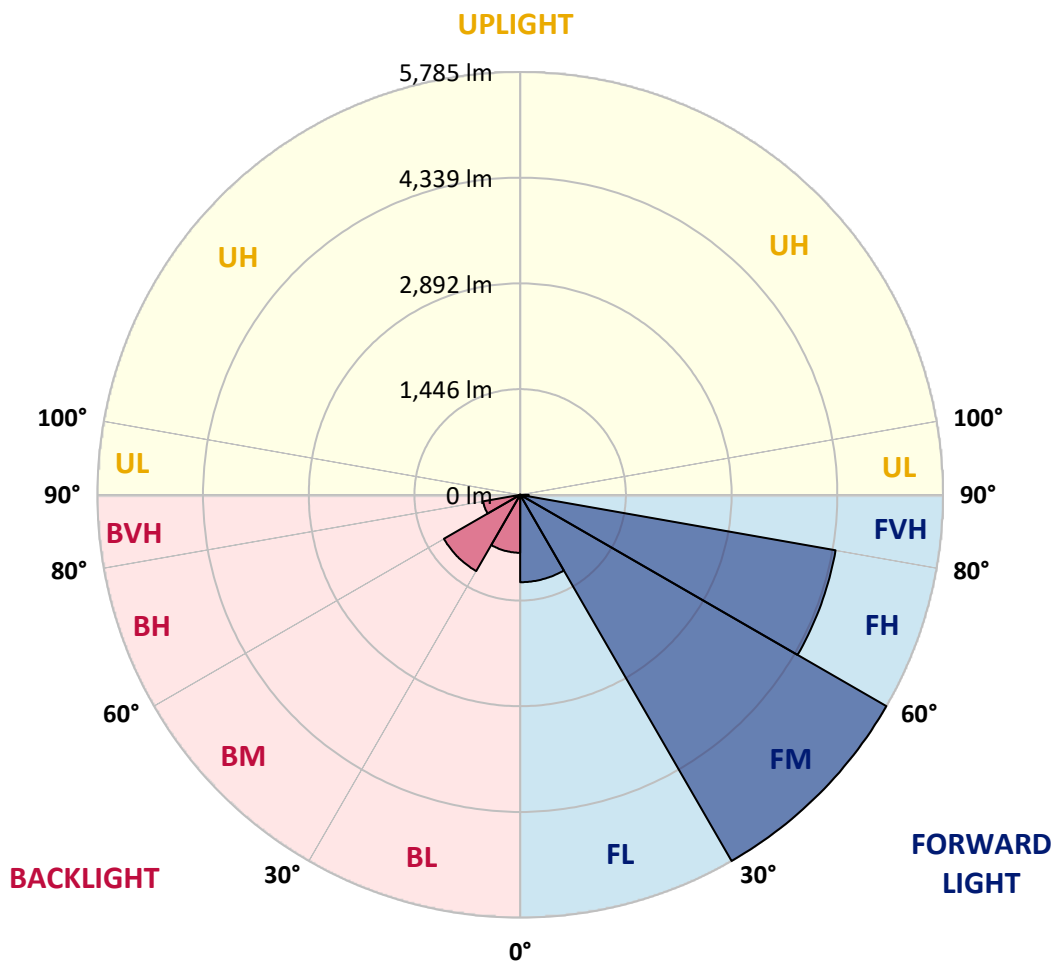
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1195.6	8.5			
FM	(30°-60°)	5784.9	41.3			
FH	(60°-80°)	4381.2	31.3			G2/5000
FVH	(80°-90°)	116.1	0.8			G2/225
BL	(0°-30°)	792.7	5.7	B2/1000		
BM	(30°-60°)	1204.4	8.6	B2/2500		
BH	(60°-80°)	514.6	3.7	B2/1000		G2/1000
BVH	(80°-90°)	12.5	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°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	2124.2	2120.9	2120.9	2101.9	2084.1	2079.6	2078.5	2072.9	2074.0	2066.2	2058.4
5°	2185.6	2185.6	2183.4	2158.8	2139.9	2127.6	2119.8	2109.7	2110.8	2105.3	2098.6
7.5°	2278.2	2279.3	2274.9	2242.5	2223.5	2193.4	2175.6	2156.6	2155.5	2148.8	2151.0
10°	2392.0	2395.3	2388.7	2347.4	2315.0	2273.7	2235.8	2202.3	2200.1	2192.3	2199.0
12.5°	2520.3	2524.8	2508.0	2465.6	2428.8	2364.1	2318.4	2273.7	2267.0	2265.9	2270.4
15°	2667.6	2669.8	2664.2	2601.7	2557.1	2498.0	2423.2	2366.3	2359.6	2360.8	2355.2
17.5°	2831.6	2837.2	2824.9	2769.1	2710.0	2628.5	2539.3	2469.0	2465.6	2462.3	2437.7
20°	3005.6	3011.2	3003.4	2950.9	2880.7	2778.0	2668.7	2588.4	2587.2	2579.4	2522.5
22.5°	3202.0	3209.8	3205.3	3141.7	3067.0	2955.4	2819.3	2735.6	2733.4	2708.8	2622.9
25°	3415.1	3412.8	3417.3	3349.2	3279.0	3161.8	2993.3	2906.3	2906.3	2876.2	2749.0
27.5°	3621.5	3620.4	3628.2	3580.2	3506.6	3396.1	3193.0	3104.9	3112.7	3069.2	2900.7
30°	3822.3	3822.3	3841.3	3810.0	3755.3	3639.3	3440.7	3348.1	3358.2	3312.4	3092.6
32.5°	4009.7	4018.6	4051.0	4032.0	3990.8	3885.9	3716.3	3631.5	3654.9	3673.9	3449.7
35°	4148.1	4157.0	4231.7	4238.4	4228.4	4158.1	4032.0	4086.7	4114.6	4264.1	4014.2
37.5°	4269.7	4280.8	4370.1	4425.9	4458.2	4414.7	4422.5	4605.5	4657.9	4834.2	4496.2
40°	4358.9	4383.5	4471.6	4548.6	4662.4	4713.7	4840.9	5100.8	5185.6	5255.9	4827.5
42.5°	4297.6	4314.3	4469.4	4675.8	4842.0	5022.7	5229.1	5538.2	5601.8	5579.5	5119.8
45°	4207.2	4227.3	4390.2	4709.2	4984.8	5345.2	5597.3	5932.0	6004.5	5880.7	5372.0
47.5°	4105.7	4133.6	4309.8	4664.6	5104.2	5641.9	5930.9	6270.1	6312.5	6149.6	5583.9
50°	4003.0	4034.3	4234.0	4627.8	5196.8	5889.6	6174.1	6545.6	6557.9	6372.7	5774.7
52.5°	3864.7	3897.0	4115.7	4550.8	5261.5	6052.5	6387.2	6772.1	6779.9	6613.7	5955.4
55°	3689.5	3730.8	3961.7	4437.0	5277.1	6147.3	6522.2	7007.5	7060.0	6874.8	6103.8
57.5°	3483.1	3521.1	3775.4	4273.0	5199.0	6179.7	6710.8	7318.8	7391.3	7139.2	6226.6
60°	3245.5	3289.0	3544.5	4061.0	5041.7	6270.1	7023.1	7758.4	7801.9	7415.9	6334.8
62.5°	3002.3	3033.5	3265.6	3763.2	4796.3	6324.7	7299.8	8171.2	8200.2	7682.5	6399.5
65°	2656.4	2695.5	2921.9	3421.8	4442.6	6219.9	7405.8	8453.4	8471.3	7905.6	6368.2
67.5°	2280.4	2311.7	2476.8	3010.1	3978.5	5887.4	7362.3	8642.0	8698.9	8079.7	6226.6
69°	2013.8	2045.0	2187.8	2681.0	3633.7	5592.9	7300.9	8770.3	8820.5	8067.4	6045.8
70°	1806.3	1837.5	1972.5	2435.5	3363.7	5344.1	7203.9	8705.6	8737.9	7930.2	5869.5
72.5°	1291.9	1323.2	1433.6	1712.6	2548.2	4392.4	6602.5	7987.1	8030.6	7270.8	5245.9
75°	676.1	750.8	949.4	1106.7	1509.5	3092.6	5489.1	6869.2	6932.8	6380.5	4314.3
77.5°	87.0	91.5	267.8	449.6	623.7	1304.2	3899.3	5515.9	5616.3	5106.4	2983.3
80°	70.3	71.4	92.6	224.2	310.2	528.8	1383.4	2581.7	2703.3	2269.3	1096.7
82.5°	49.1	51.3	72.5	118.3	101.5	193.0	480.9	729.6	752.0	650.4	437.3
85°	27.9	27.9	34.6	45.7	32.4	72.5	99.3	106.0	94.8	93.7	70.3
87.5°	7.8	8.9	10.0	7.8	3.3	3.3	4.5	4.5	4.5	3.3	3.3
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°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	2070.7	2068.5	2069.6	2074.0	2080.7	2105.3	2122.0	2124.2	2132.0	2161.1	2157.7
5°	2106.4	2119.8	2127.6	2151.0	2166.6	2200.1	2220.2	2222.4	2233.6	2263.7	2264.8
7.5°	2156.6	2178.9	2190.1	2216.8	2222.4	2238.0	2243.6	2238.0	2239.2	2265.9	2268.2
10°	2200.1	2228.0	2228.0	2234.7	2224.6	2225.8	2207.9	2191.2	2182.3	2205.7	2211.3
12.5°	2267.0	2274.9	2257.0	2236.9	2206.8	2180.0	2149.9	2123.1	2101.9	2115.3	2107.5
15°	2336.2	2323.9	2280.4	2228.0	2174.4	2128.7	2066.2	2027.2	1990.4	1998.2	1991.5
17.5°	2405.4	2365.2	2297.2	2210.1	2132.0	2045.0	1958.0	1896.6	1829.7	1824.1	1814.1
20°	2472.3	2414.3	2301.6	2173.3	2064.0	1941.3	1806.3	1701.4	1602.1	1576.4	1559.7
22.5°	2552.7	2469.0	2307.2	2137.6	1990.4	1823.0	1618.8	1456.0	1348.8	1313.1	1296.4
25°	2655.3	2544.8	2322.8	2110.8	1915.6	1676.9	1396.8	1210.5	1094.5	1033.1	1027.5
27.5°	2776.9	2636.3	2349.6	2076.3	1809.6	1481.6	1167.0	972.9	849.0	786.5	766.5
30°	2936.4	2750.1	2374.1	2049.5	1660.1	1268.5	926.0	709.6	562.3	522.1	500.9
32.5°	3238.8	2935.3	2405.4	1987.0	1483.8	1035.3	656.0	437.3	336.9	310.2	310.2
35°	3730.8	3342.5	2483.5	1901.1	1271.9	754.2	393.8	245.4	200.8	185.2	177.4
37.5°	4174.8	3753.1	2678.7	1768.3	1014.1	446.3	225.4	151.7	137.2	139.5	139.5
40°	4488.3	4034.3	2894.0	1588.7	688.4	238.8	142.8	121.6	123.8	125.0	125.0
42.5°	4757.2	4274.1	3012.3	1375.6	374.9	155.1	122.7	110.5	113.8	112.7	111.6
45°	4982.6	4469.4	3051.4	1082.2	181.9	137.2	111.6	101.5	101.5	100.4	100.4
47.5°	5175.6	4642.3	2978.8	804.4	147.3	126.1	106.0	93.7	92.6	98.2	98.2
50°	5351.9	4776.2	2798.1	609.2	142.8	116.0	100.4	87.0	88.1	95.9	95.9
52.5°	5499.1	4855.4	2530.3	456.3	132.8	107.1	92.6	81.4	81.4	89.3	89.3
55°	5608.5	4855.4	2326.2	341.4	127.2	98.2	85.9	78.1	73.6	75.9	77.0
57.5°	5663.1	4763.9	2162.2	276.7	120.5	89.3	79.2	68.1	60.2	62.5	61.4
60°	5648.6	4711.5	1973.6	246.6	112.7	82.6	70.3	58.0	50.2	48.0	48.0
62.5°	5621.9	4652.3	1738.2	214.2	104.9	77.0	58.0	46.9	42.4	40.2	41.3
65°	5520.3	4460.5	1440.3	178.5	97.1	74.7	49.1	41.3	36.8	34.6	34.6
67.5°	5274.9	4114.6	1088.9	150.6	90.4	60.2	42.4	35.7	31.2	29.0	29.0
69°	5031.7	3784.4	835.6	137.2	85.9	54.7	39.0	32.4	29.0	25.7	25.7
70°	4821.9	3528.9	654.9	128.3	82.6	52.4	37.9	31.2	27.9	24.5	24.5
72.5°	4105.7	2799.2	332.5	111.6	69.2	45.7	33.5	27.9	23.4	20.1	20.1
75°	3185.2	1929.0	219.8	88.1	53.6	41.3	30.1	24.5	20.1	16.7	15.6
77.5°	1916.7	754.2	157.3	56.9	34.6	32.4	24.5	20.1	16.7	13.4	13.4
80°	528.8	323.5	106.0	37.9	20.1	21.2	17.9	14.5	12.3	10.0	10.0
82.5°	318.0	209.7	70.3	24.5	13.4	13.4	10.0	10.0	7.8	7.8	7.8
85°	54.7	42.4	16.7	10.0	7.8	7.8	5.6	3.3	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	4.5	4.5	3.3	2.2	1.1	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)