

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: P233922

Luminaire Tested: **VERD-G-C029-D-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
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-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14065 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-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

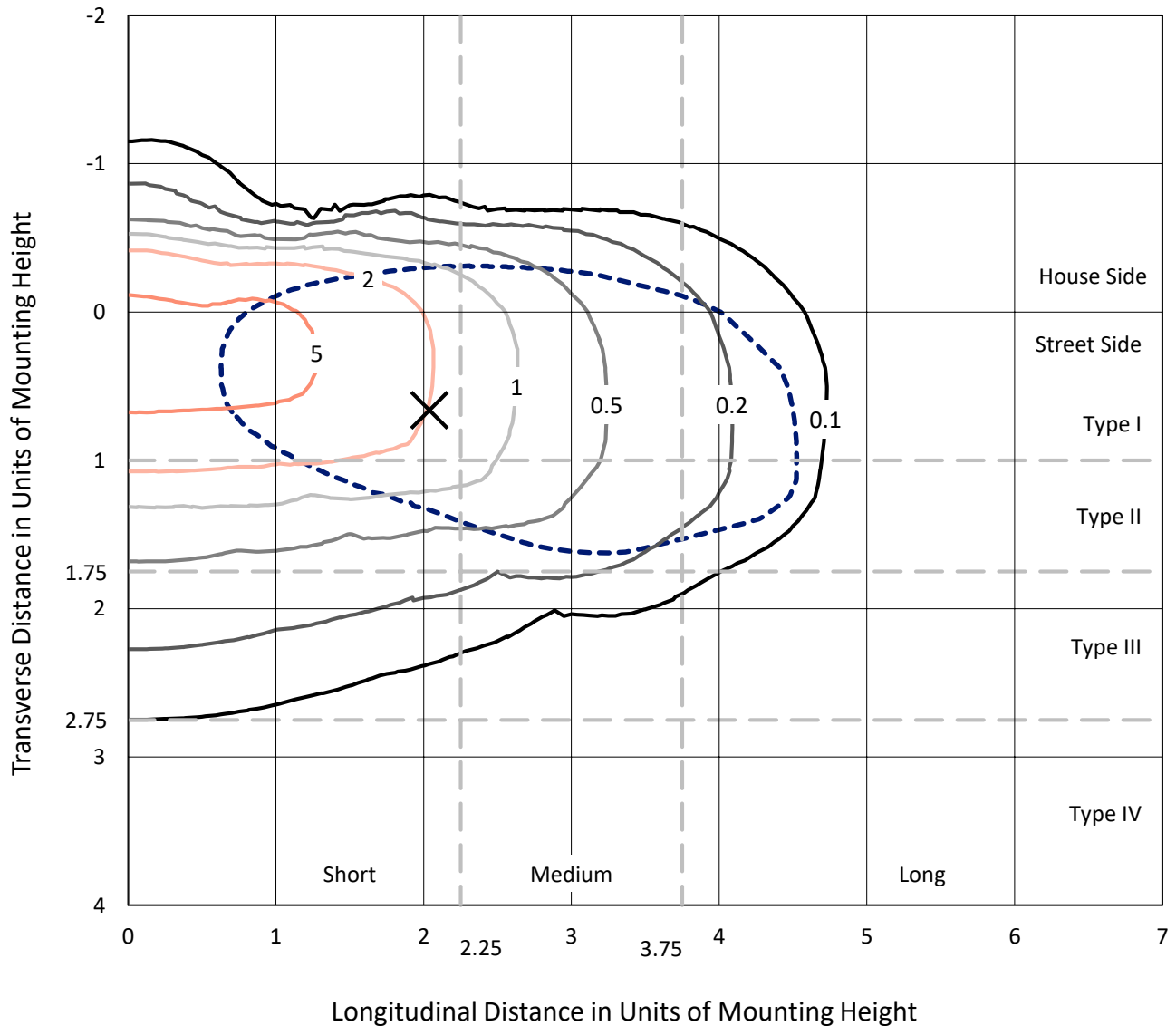


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

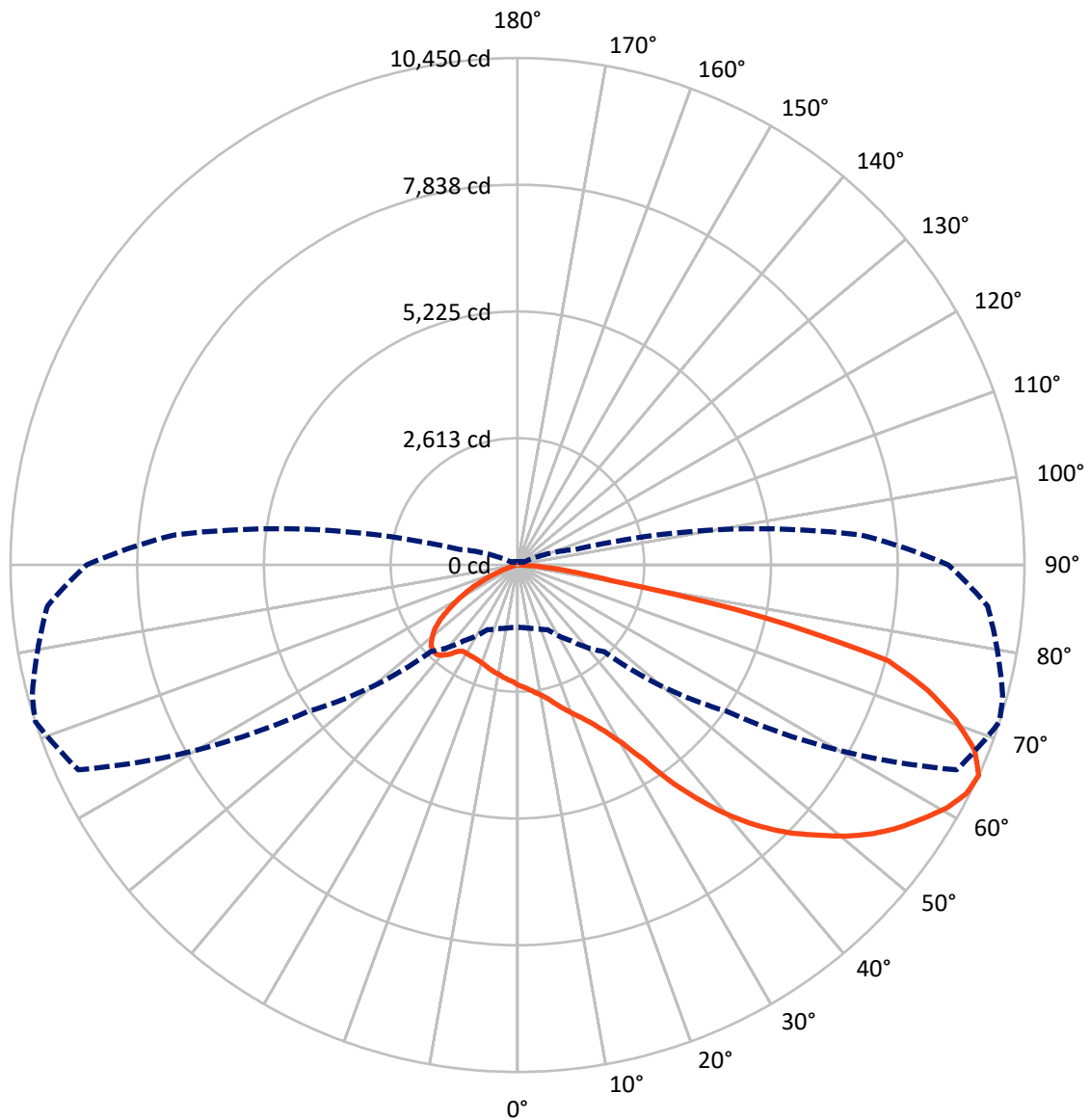


Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2922.8	0.0	2922.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	11142.2	0.0	11142.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	14065.0	0.0	14065.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	1.7
10°-20°	721.2	5.1
20°-30°	1205.1	8.6
30°-40°	1782.7	12.7
40°-50°	2464.4	17.5
50°-60°	2883.8	20.5
60°-70°	2866.5	20.4
70°-80°	1716.8	12.2
80°-90°	186.9	1.3
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°	14065.0	100.0
0°-180°	14065.0	100.0



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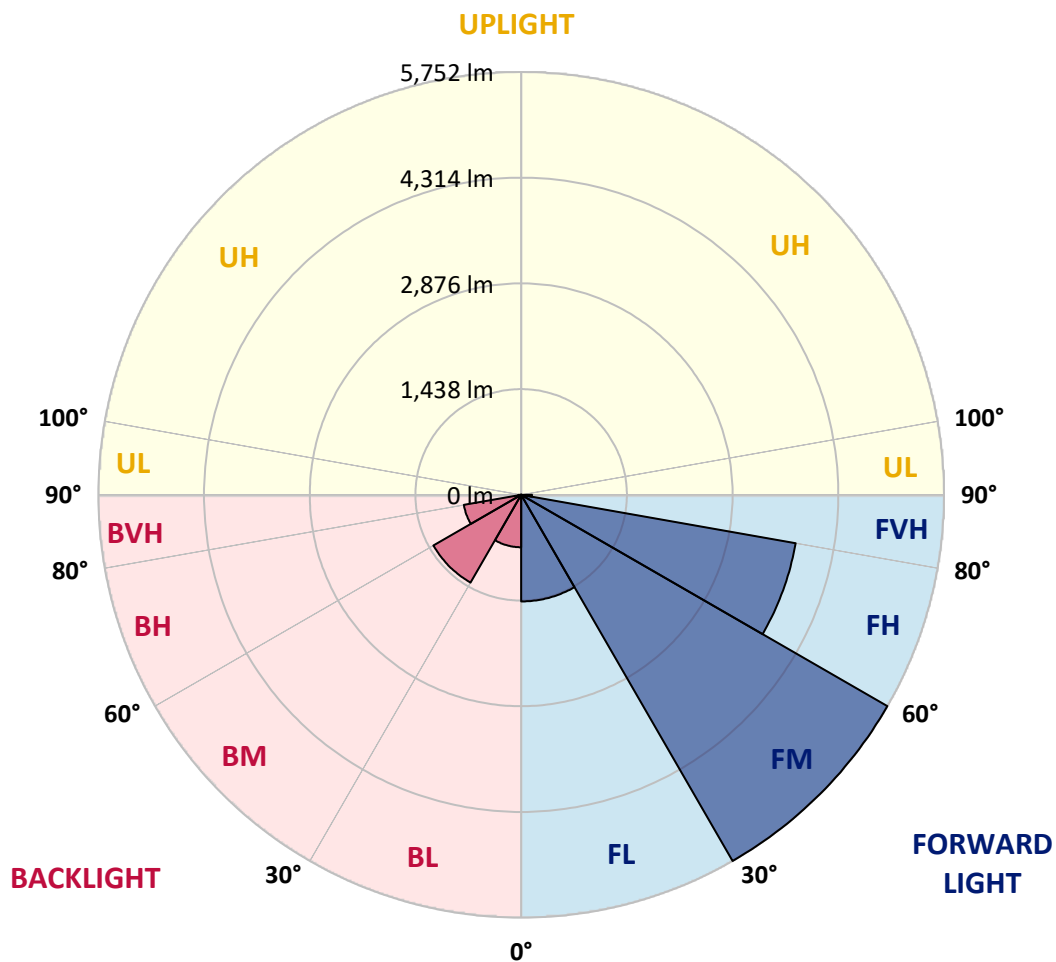
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.4	10.3			
FM (30°-60°)	5752.2	40.9			
FH (60°-80°)	3792.0	27.0			G2/5000
FVH (80°-90°)	147.7	1.1			G2/225
BL (0°-30°)	713.5	5.1	B2/1000		
BM (30°-60°)	1378.8	9.8	B2/2500		
BH (60°-80°)	791.3	5.6	B2/1000		G2/1000
BVH (80°-90°)	39.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8
2.5°	2687.7	2690.0	2691.1	2648.7	2625.7	2599.3	2574.1	2546.5	2517.8	2507.5	2469.6
5°	2852.9	2855.2	2848.4	2809.3	2766.9	2727.9	2679.7	2630.3	2582.1	2568.3	2504.1
7.5°	3012.5	3011.3	3005.6	2956.2	2903.4	2851.8	2784.1	2717.5	2654.4	2632.6	2537.4
10°	3144.4	3146.7	3150.2	3097.4	3045.7	2983.8	2901.1	2802.4	2730.1	2695.7	2571.8
12.5°	3289.0	3282.1	3291.3	3239.7	3168.5	3112.3	3037.7	2921.8	2835.7	2792.1	2638.3
15°	3454.3	3454.3	3441.7	3399.2	3326.9	3258.0	3183.5	3076.7	2973.4	2906.9	2727.9
17.5°	3567.9	3561.0	3557.6	3520.8	3458.9	3399.2	3341.8	3232.8	3120.3	3038.9	2811.6
20°	3616.1	3618.4	3634.5	3608.1	3574.8	3539.2	3476.1	3391.2	3267.2	3180.0	2901.1
22.5°	3709.1	3711.3	3730.9	3712.5	3703.3	3694.1	3635.6	3561.0	3429.0	3345.3	3013.6
25°	3714.8	3717.1	3769.9	3799.7	3846.8	3868.6	3828.4	3764.1	3629.9	3548.4	3181.2
27.5°	3732.0	3738.9	3792.8	3875.5	3999.4	4043.0	4020.1	4017.8	3904.1	3818.1	3399.2
30°	3717.1	3724.0	3802.0	3916.8	4088.9	4217.4	4243.8	4311.5	4265.6	4201.4	3702.2
32.5°	3611.5	3636.8	3729.7	3912.2	4165.8	4398.8	4483.7	4715.5	4784.4	4791.2	4310.4
35°	3419.9	3433.6	3602.3	3859.4	4217.4	4569.8	4803.9	5231.9	5523.4	5510.8	4984.0
37.5°	3274.1	3278.7	3452.0	3769.9	4246.1	4753.4	5168.8	5853.9	6189.0	6203.9	5592.3
40°	3087.1	3120.3	3286.7	3662.0	4230.1	4908.3	5531.4	6433.5	6823.6	6807.6	6125.9
42.5°	2912.6	2932.1	3097.4	3493.3	4171.5	5026.5	5887.2	6994.6	7377.9	7325.2	6637.7
45°	2731.3	2764.6	2916.1	3275.3	4055.6	5093.1	6209.7	7527.1	7878.3	7812.9	7088.7
47.5°	2550.0	2574.1	2734.7	3075.6	3837.6	5090.8	6526.4	8026.3	8322.4	8276.5	7515.7
50°	1940.6	1993.4	2415.7	2866.7	3531.2	4994.4	6782.3	8500.3	8788.3	8717.2	7932.2
52.5°	1778.8	1796.0	1914.2	2624.6	3204.1	4764.8	6982.0	8945.6	9199.2	9117.7	8324.7
55°	1681.2	1701.9	1750.1	2133.4	2935.6	4387.3	7064.6	9361.0	9550.4	9467.7	8674.7
57.5°	1551.6	1572.2	1667.5	1837.3	2655.6	3812.3	6943.0	9729.4	9861.4	9770.7	8999.5
60°	1462.0	1471.2	1563.0	1696.2	2349.1	3231.7	6536.7	10028.9	10166.6	10058.7	9320.8
62.5°	1379.4	1389.7	1455.2	1587.1	2095.5	2805.9	5904.4	10102.4	10383.5	10299.7	9614.6
65°	1284.2	1293.3	1353.0	1470.1	1899.3	2528.2	5252.6	9989.9	10450.1	10354.8	9728.2
67.5°	1157.9	1170.6	1217.6	1323.2	1642.2	2213.7	4282.9	9782.2	10158.6	10059.9	9495.3
70°	1001.9	1007.6	1063.8	1159.1	1387.5	1921.1	3359.0	9043.1	9581.3	9472.3	8838.8
72.5°	809.1	819.4	880.2	980.1	1139.6	1582.5	2399.6	7814.0	8850.3	8809.0	7882.9
75°	540.5	580.7	725.3	826.3	942.2	1236.0	1611.2	5484.4	7901.2	7933.4	6734.1
77.5°	103.3	106.7	304.1	452.2	550.8	755.1	997.3	2694.6	5207.8	5771.3	5078.1
80°	67.7	73.4	129.7	316.7	364.9	374.1	511.8	1180.9	1962.4	2482.3	2928.7
82.5°	35.6	42.5	78.0	183.6	167.6	93.0	167.6	609.4	1087.9	1249.7	1477.0
85°	14.9	17.2	37.9	63.1	47.1	39.0	39.0	243.3	482.0	557.7	579.5
87.5°	2.3	2.3	8.0	11.5	6.9	4.6	3.4	1.1	1.1	1.1	1.1
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°	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8
2.5°	2469.6	2449.0	2420.3	2387.0	2362.9	2350.3	2340.0	2312.4	2303.2	2321.6	2317.0
5°	2480.0	2455.9	2390.5	2336.5	2282.6	2249.3	2212.6	2164.4	2143.7	2155.2	2151.8
7.5°	2486.9	2457.0	2359.5	2275.7	2185.0	2121.9	2073.7	2010.6	1979.6	1991.1	1977.3
10°	2497.2	2452.4	2322.7	2211.4	2093.2	2001.4	1930.3	1856.8	1824.7	1833.9	1822.4
12.5°	2540.8	2468.5	2305.5	2156.3	2011.7	1897.0	1807.5	1729.4	1683.5	1692.7	1683.5
15°	2611.9	2500.6	2280.3	2086.3	1925.7	1794.9	1691.6	1602.1	1549.3	1561.9	1550.4
17.5°	2686.5	2539.6	2257.3	2008.3	1833.9	1688.1	1580.2	1504.5	1419.6	1427.6	1410.4
20°	2750.8	2576.4	2244.7	1934.9	1747.8	1574.5	1444.8	1393.2	1276.1	1246.3	1226.8
22.5°	2840.3	2630.3	2234.4	1875.2	1641.1	1460.9	1307.1	1210.7	1084.5	1021.4	1015.6
25°	2967.7	2710.6	2233.2	1828.1	1544.7	1341.5	1126.9	965.1	853.8	779.2	768.9
27.5°	3129.5	2817.4	2245.9	1781.1	1448.3	1191.2	905.5	726.4	626.6	569.2	558.9
30°	3362.5	2957.4	2261.9	1727.1	1340.4	996.1	674.8	534.8	452.2	410.8	402.8
32.5°	3861.7	3316.6	2286.0	1670.9	1210.7	750.5	490.0	387.9	324.8	299.5	312.1
35°	4463.0	3804.3	2393.9	1598.6	1040.9	534.8	353.5	276.6	233.0	238.7	245.6
37.5°	4988.6	4270.2	2636.0	1505.7	813.7	392.5	243.3	206.6	206.6	224.9	241.0
40°	5484.4	4690.3	2852.9	1379.4	570.4	270.8	188.2	191.6	188.2	199.7	196.2
42.5°	5952.6	5088.5	3022.8	1229.1	373.0	187.1	171.0	177.9	172.1	174.4	164.1
45°	6395.6	5500.5	3116.9	1007.6	247.9	163.0	157.2	168.7	167.6	165.3	154.9
47.5°	6805.3	5863.1	3163.9	726.4	171.0	146.9	148.0	156.1	159.5	157.2	151.5
50°	7206.9	6224.6	3121.5	434.9	153.8	134.3	142.3	142.3	149.2	136.6	132.0
52.5°	7591.4	6587.2	2987.2	263.9	141.2	125.1	132.0	129.7	133.1	120.5	118.2
55°	7952.9	6856.9	2722.1	207.7	133.1	119.4	120.5	122.8	117.1	103.3	107.9
57.5°	8335.0	7086.5	2352.6	188.2	129.7	111.3	113.6	112.5	103.3	90.7	90.7
60°	8649.5	7252.9	1981.9	171.0	127.4	109.0	101.0	98.7	84.9	78.0	76.9
62.5°	8866.4	7299.9	1620.4	152.6	120.5	101.0	90.7	83.8	71.2	64.3	62.0
65°	8883.6	7099.1	1233.7	137.7	113.6	94.1	83.8	68.9	56.2	50.5	48.2
67.5°	8531.3	6541.3	869.9	126.2	102.1	87.2	73.4	55.1	44.8	40.2	39.0
70°	7794.5	5848.2	532.5	110.2	93.0	81.5	75.7	44.8	36.7	31.0	31.0
72.5°	6839.7	5065.5	312.1	94.1	78.0	65.4	50.5	37.9	31.0	24.1	24.1
75°	5862.0	4021.2	191.6	71.2	57.4	51.6	39.0	32.1	25.2	18.4	18.4
77.5°	4220.9	2968.9	149.2	45.9	35.6	36.7	28.7	25.2	20.7	14.9	14.9
80°	2590.1	1807.5	106.7	31.0	20.7	20.7	20.7	19.5	14.9	12.6	11.5
82.5°	1312.9	826.3	52.8	18.4	12.6	12.6	12.6	13.8	11.5	9.2	9.2
85°	461.3	231.8	16.1	9.2	8.0	8.0	6.9	6.9	5.7	4.6	4.6
87.5°	1.1	2.3	2.3	3.4	4.6	4.6	3.4	2.3	1.1	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)