

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: P233686

Luminaire Tested: **VERD-C02H-D-U-T2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233686
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-C02H-D-U-T2-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13113 lumens
Efficiency: N/A
Efficacy: 109.3 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

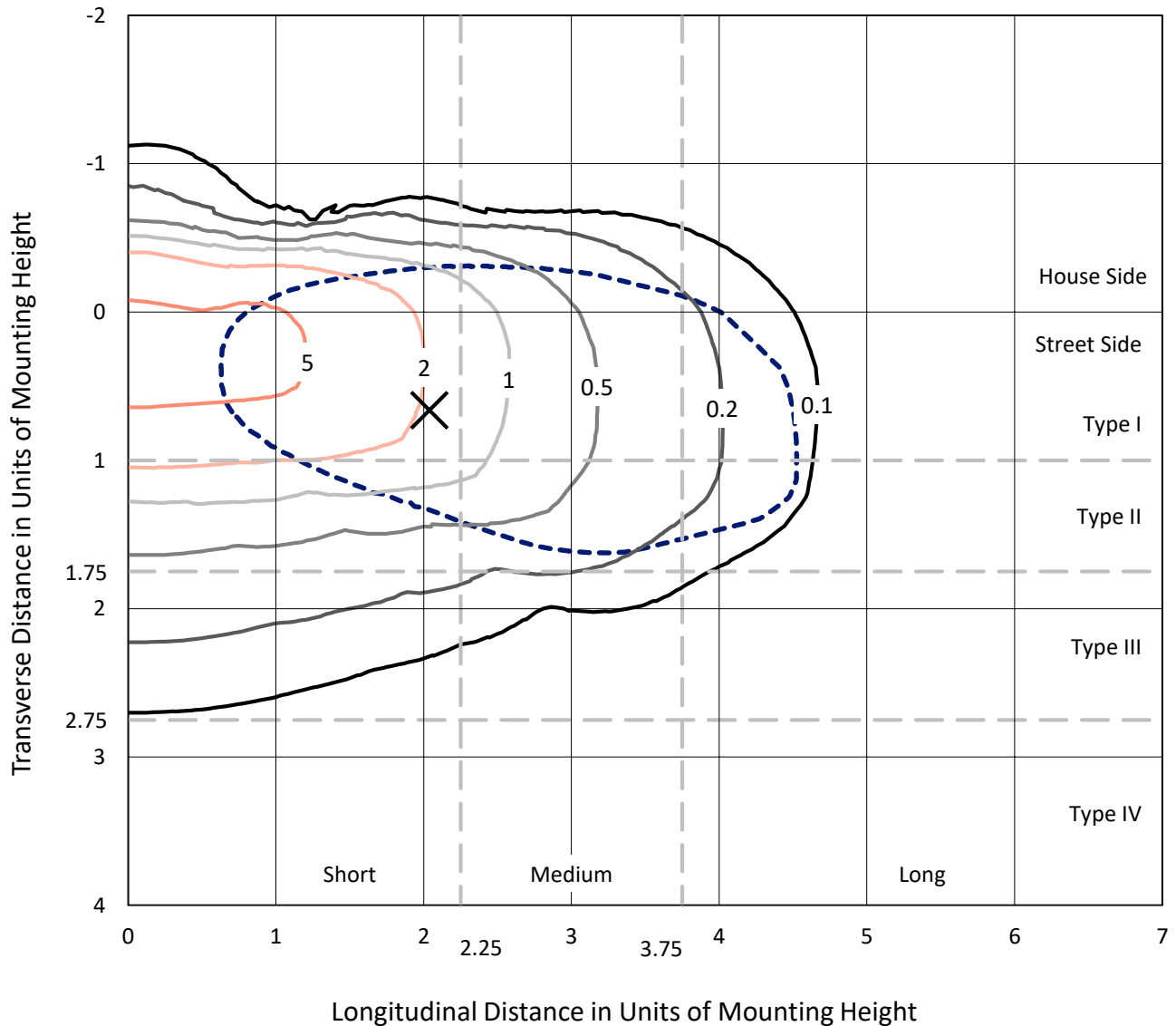
Input Watts (W): 120
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

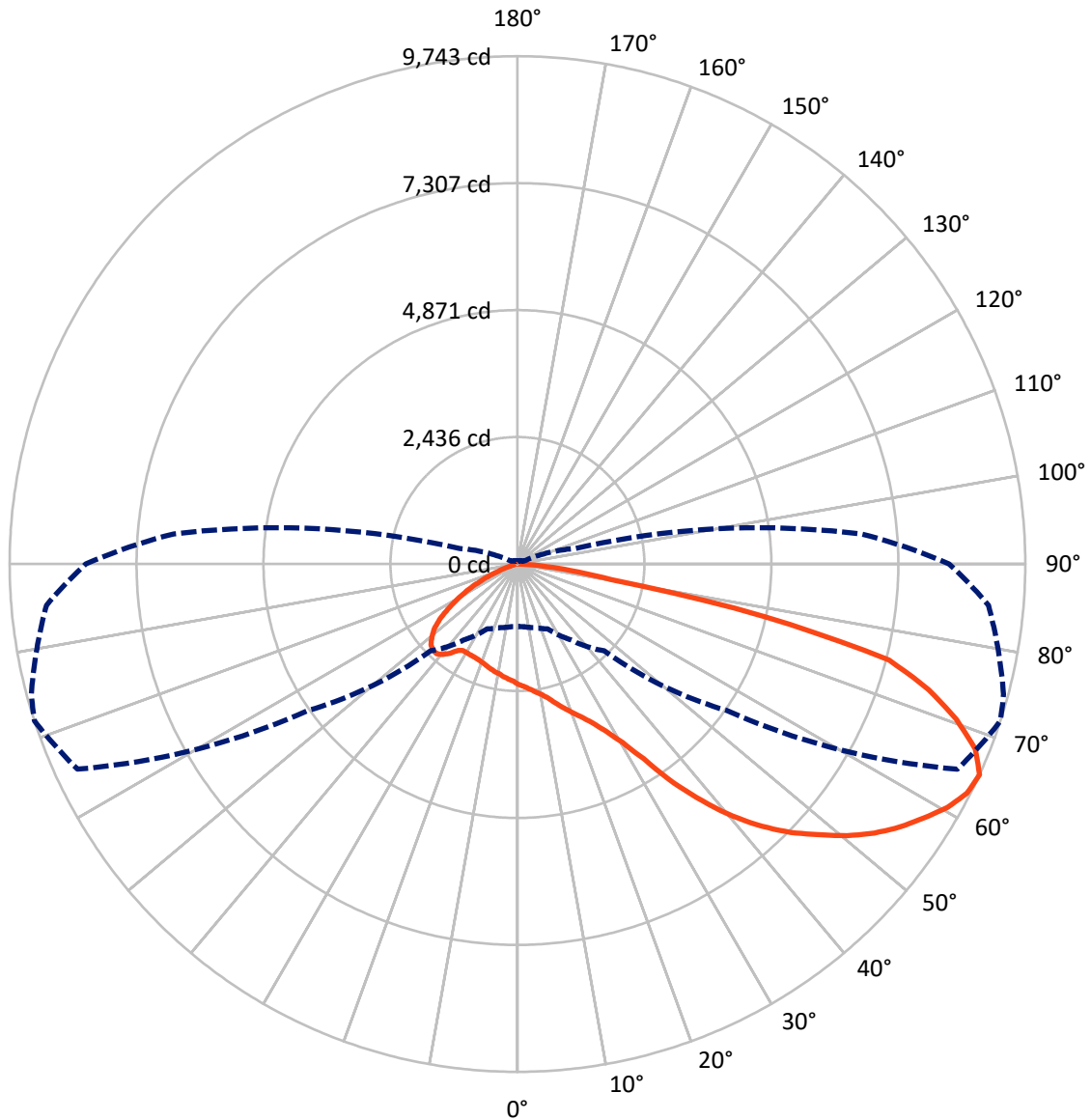
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 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	2724.9	0.0	2724.9
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	10388.1	0.0	10388.1
	% Fixture	79.2	0.0	79.2
Total	Lumens	13113.0	0.0	13113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.7
10°-20°	672.4	5.1
20°-30°	1123.5	8.6
30°-40°	1662.0	12.7
40°-50°	2297.6	17.5
50°-60°	2688.6	20.5
60°-70°	2672.5	20.4
70°-80°	1600.6	12.2
80°-90°	174.2	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°	13113.0	100.0
0°-180°	13113.0	100.0



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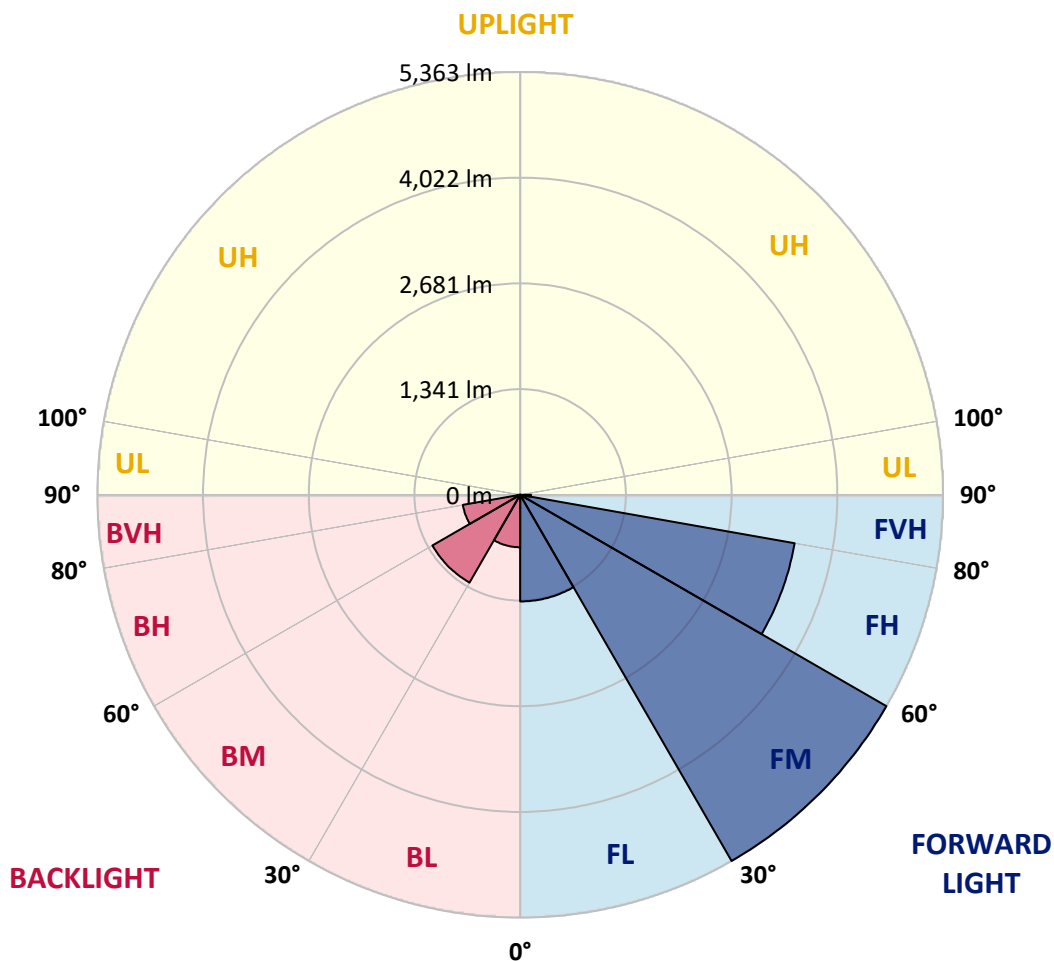
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1352.2	10.3			
FM	(30°-60°)	5362.8	40.9			
FH	(60°-80°)	3535.3	27.0			G2/5000
FVH	(80°-90°)	137.7	1.1			G2/225
BL	(0°-30°)	665.2	5.1	B2/1000		
BM	(30°-60°)	1285.5	9.8	B2/2500		
BH	(60°-80°)	737.8	5.6	B2/1000		G2/1000
BVH	(80°-90°)	36.5	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°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2505.8	2507.9	2509.0	2469.4	2448.0	2423.4	2399.8	2374.2	2347.4	2337.8	2302.5
5°	2659.8	2662.0	2655.6	2619.2	2579.6	2543.2	2498.3	2452.3	2407.3	2394.5	2334.6
7.5°	2808.6	2807.5	2802.1	2756.1	2706.9	2658.8	2595.6	2533.6	2474.7	2454.4	2365.6
10°	2931.6	2933.7	2936.9	2887.7	2839.6	2781.8	2704.8	2612.8	2545.4	2513.3	2397.7
12.5°	3066.4	3060.0	3068.6	3020.4	2954.1	2901.6	2832.1	2724.0	2643.8	2603.1	2459.8
15°	3220.5	3220.5	3208.7	3169.1	3101.7	3037.5	2968.0	2868.5	2772.2	2710.1	2543.2
17.5°	3326.4	3320.0	3316.8	3282.5	3224.8	3169.1	3115.6	3014.0	2909.1	2833.2	2621.3
20°	3371.3	3373.5	3388.5	3363.9	3332.8	3299.7	3240.8	3161.6	3046.1	2964.8	2704.8
22.5°	3458.0	3460.1	3478.3	3461.2	3452.7	3444.1	3389.5	3320.0	3196.9	3118.8	2809.6
25°	3463.4	3465.5	3514.7	3542.5	3586.4	3606.7	3569.3	3509.4	3384.2	3308.2	2965.8
27.5°	3479.4	3485.8	3536.1	3613.1	3728.7	3769.4	3748.0	3745.8	3639.9	3559.6	3169.1
30°	3465.5	3471.9	3544.7	3651.7	3812.2	3932.0	3956.6	4019.7	3976.9	3917.0	3451.6
32.5°	3367.1	3390.6	3477.3	3647.4	3883.8	4101.0	4180.2	4396.3	4460.5	4466.9	4018.6
35°	3188.4	3201.2	3358.5	3598.2	3932.0	4260.4	4478.7	4877.8	5149.6	5137.8	4646.7
37.5°	3052.5	3056.8	3218.3	3514.7	3958.7	4431.6	4819.0	5457.7	5770.1	5784.0	5213.8
40°	2878.1	2909.1	3064.3	3414.1	3943.8	4576.1	5157.0	5998.0	6361.8	6346.8	5711.3
42.5°	2715.5	2733.7	2887.7	3256.9	3889.2	4686.3	5488.7	6521.2	6878.6	6829.3	6188.5
45°	2546.4	2577.5	2718.7	3053.6	3781.1	4748.3	5789.4	7017.7	7345.0	7284.1	6608.9
47.5°	2377.4	2399.8	2549.6	2867.4	3577.8	4746.2	6084.7	7483.1	7759.1	7716.3	7007.0
50°	1809.2	1858.5	2252.2	2672.7	3292.2	4656.3	6323.3	7924.9	8193.5	8127.2	7395.3
52.5°	1658.4	1674.4	1784.6	2446.9	2987.2	4442.3	6509.4	8340.1	8576.5	8500.6	7761.3
55°	1567.4	1586.7	1631.6	1989.0	2736.9	4090.3	6586.5	8727.4	8903.9	8826.9	8087.6
57.5°	1446.5	1465.8	1554.6	1713.0	2475.8	3554.3	6473.1	9070.8	9193.9	9109.4	8390.4
60°	1363.1	1371.6	1457.2	1581.4	2190.1	3012.9	6094.3	9350.1	9478.5	9377.9	8689.9
62.5°	1286.1	1295.7	1356.7	1479.7	1953.7	2616.0	5504.8	9418.6	9680.7	9602.6	8963.8
65°	1197.2	1205.8	1261.4	1370.6	1770.7	2357.0	4897.1	9313.7	9742.8	9654.0	9069.8
67.5°	1079.6	1091.3	1135.2	1233.6	1531.1	2063.9	3993.0	9120.1	9471.0	9379.0	8852.6
70°	934.0	939.4	991.8	1080.6	1293.5	1791.1	3131.7	8431.0	8932.8	8831.2	8240.6
72.5°	754.3	763.9	820.6	913.7	1062.4	1475.4	2237.2	7285.1	8251.3	8212.8	7349.3
75°	503.9	541.4	676.2	770.3	878.4	1152.3	1502.2	5113.2	7366.4	7396.4	6278.3
77.5°	96.3	99.5	283.5	421.6	513.6	704.0	929.8	2512.2	4855.3	5380.7	4734.4
80°	63.1	68.5	120.9	295.3	340.2	348.8	477.2	1101.0	1829.6	2314.3	2730.5
82.5°	33.2	39.6	72.8	171.2	156.2	86.7	156.2	568.1	1014.3	1165.2	1377.0
85°	13.9	16.0	35.3	58.8	43.9	36.4	36.4	226.8	449.4	520.0	540.3
87.5°	2.1	2.1	7.5	10.7	6.4	4.3	3.2	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°	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0	2311.0
2.5°	2302.5	2283.2	2256.5	2225.4	2203.0	2191.2	2181.6	2155.9	2147.3	2164.5	2160.2
5°	2312.1	2289.6	2228.7	2178.4	2128.1	2097.1	2062.8	2017.9	1998.6	2009.3	2006.1
7.5°	2318.5	2290.7	2199.8	2121.7	2037.1	1978.3	1933.4	1874.5	1845.6	1856.3	1843.5
10°	2328.2	2286.4	2165.5	2061.7	1951.5	1866.0	1799.6	1731.1	1701.2	1709.7	1699.0
12.5°	2368.8	2301.4	2149.5	2010.4	1875.6	1768.6	1685.1	1612.4	1569.6	1578.1	1569.6
15°	2435.2	2331.4	2125.9	1945.1	1795.3	1673.4	1577.1	1493.6	1444.4	1456.2	1445.5
17.5°	2504.7	2367.7	2104.5	1872.4	1709.7	1573.9	1473.3	1402.7	1323.5	1331.0	1314.9
20°	2564.6	2402.0	2092.8	1803.9	1629.5	1467.9	1347.0	1298.9	1189.8	1161.9	1143.8
22.5°	2648.1	2452.3	2083.1	1748.3	1530.0	1362.0	1218.6	1128.8	1011.1	952.2	946.9
25°	2766.8	2527.2	2082.1	1704.4	1440.1	1250.7	1050.7	899.8	796.0	726.5	716.9
27.5°	2917.7	2626.7	2093.8	1660.5	1350.2	1110.6	844.2	677.3	584.2	530.7	521.1
30°	3134.9	2757.2	2108.8	1610.2	1249.7	928.7	629.1	498.6	421.6	383.0	375.5
32.5°	3600.3	3092.1	2131.3	1557.8	1128.8	699.7	456.9	361.6	302.8	279.3	291.0
35°	4160.9	3546.8	2231.9	1490.4	970.4	498.6	329.5	257.9	217.2	222.5	229.0
37.5°	4651.0	3981.2	2457.6	1403.7	758.6	365.9	226.8	192.6	192.6	209.7	224.7
40°	5113.2	4372.8	2659.8	1286.1	531.8	252.5	175.5	178.7	175.5	186.2	183.0
42.5°	5549.7	4744.1	2818.2	1145.9	347.7	174.4	159.4	165.8	160.5	162.6	153.0
45°	5962.7	5128.2	2905.9	939.4	231.1	151.9	146.6	157.3	156.2	154.1	144.4
47.5°	6344.7	5466.3	2949.8	677.3	159.4	137.0	138.0	145.5	148.7	146.6	141.2
50°	6719.1	5803.3	2910.2	405.5	143.4	125.2	132.7	132.7	139.1	127.3	123.0
52.5°	7077.6	6141.4	2785.0	246.1	131.6	116.6	123.0	120.9	124.1	112.3	110.2
55°	7414.6	6392.8	2537.9	193.7	124.1	111.3	112.3	114.5	109.1	96.3	100.6
57.5°	7770.9	6606.8	2193.4	175.5	120.9	103.8	105.9	104.9	96.3	84.5	84.5
60°	8064.0	6761.9	1847.8	159.4	118.8	101.6	94.2	92.0	79.2	72.8	71.7
62.5°	8266.3	6805.8	1510.7	142.3	112.3	94.2	84.5	78.1	66.3	59.9	57.8
65°	8282.3	6618.6	1150.2	128.4	105.9	87.7	78.1	64.2	52.4	47.1	44.9
67.5°	7953.8	6098.6	811.0	117.7	95.2	81.3	68.5	51.4	41.7	37.4	36.4
70°	7266.9	5452.3	496.4	102.7	86.7	76.0	70.6	41.7	34.2	28.9	28.9
72.5°	6376.8	4722.7	291.0	87.7	72.8	61.0	47.1	35.3	28.9	22.5	22.5
75°	5465.2	3749.0	178.7	66.3	53.5	48.1	36.4	30.0	23.5	17.1	17.1
77.5°	3935.2	2767.9	139.1	42.8	33.2	34.2	26.7	23.5	19.3	13.9	13.9
80°	2414.8	1685.1	99.5	28.9	19.3	19.3	19.3	18.2	13.9	11.8	10.7
82.5°	1224.0	770.3	49.2	17.1	11.8	11.8	11.8	12.8	10.7	8.6	8.6
85°	430.1	216.1	15.0	8.6	7.5	7.5	6.4	6.4	5.3	4.3	4.3
87.5°	1.1	2.1	2.1	3.2	4.3	4.3	3.2	2.1	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)