

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: P233917

Luminaire Tested: **VERD-G-C028-D-U-T2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233917
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-C028-D-U-T2-7030-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 885mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11927 lumens
Efficiency: N/A
Efficacy: 115.8 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

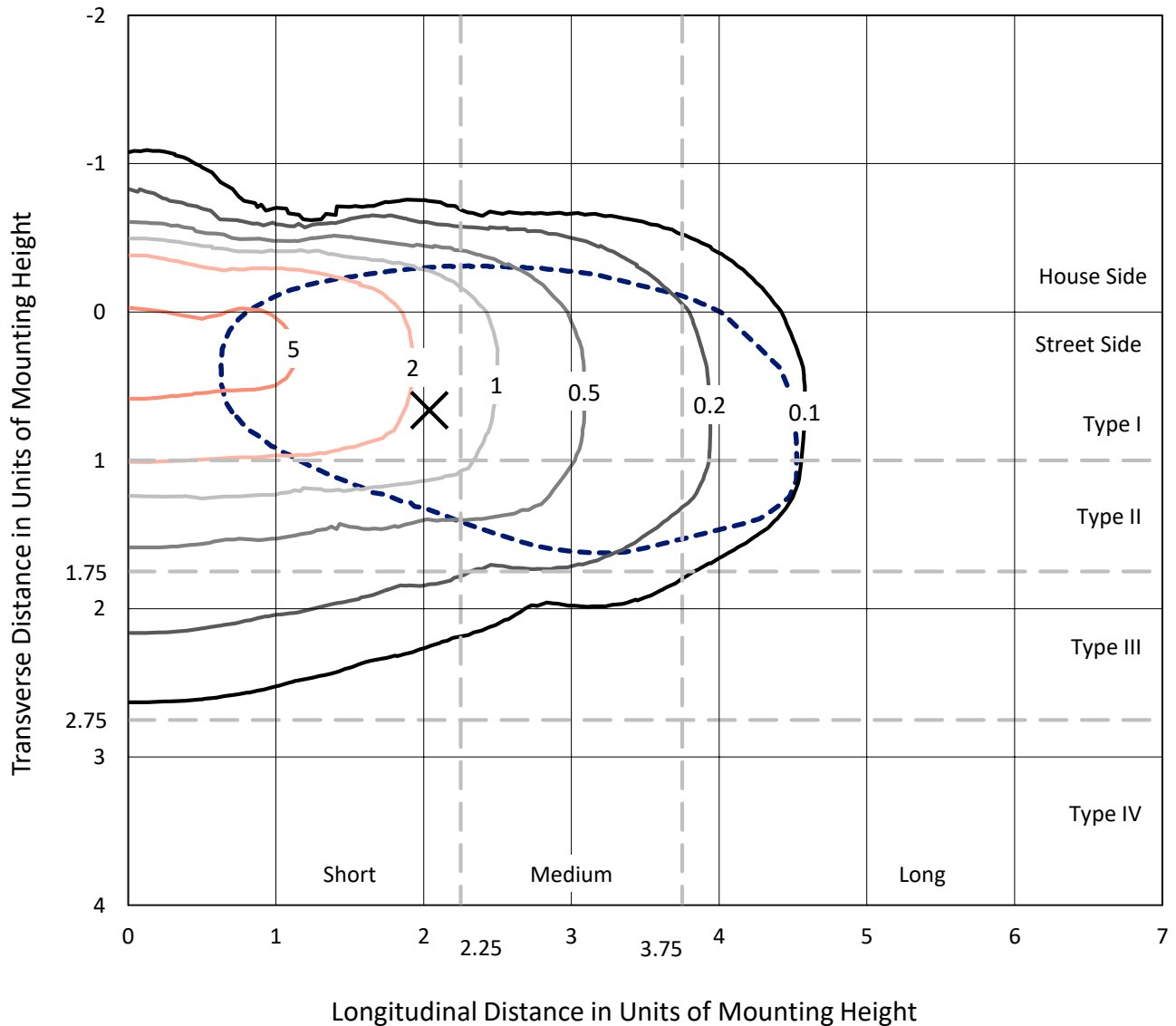
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233917
 CATALOG NUMBER: VERD-G-C028-D-U-T2-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

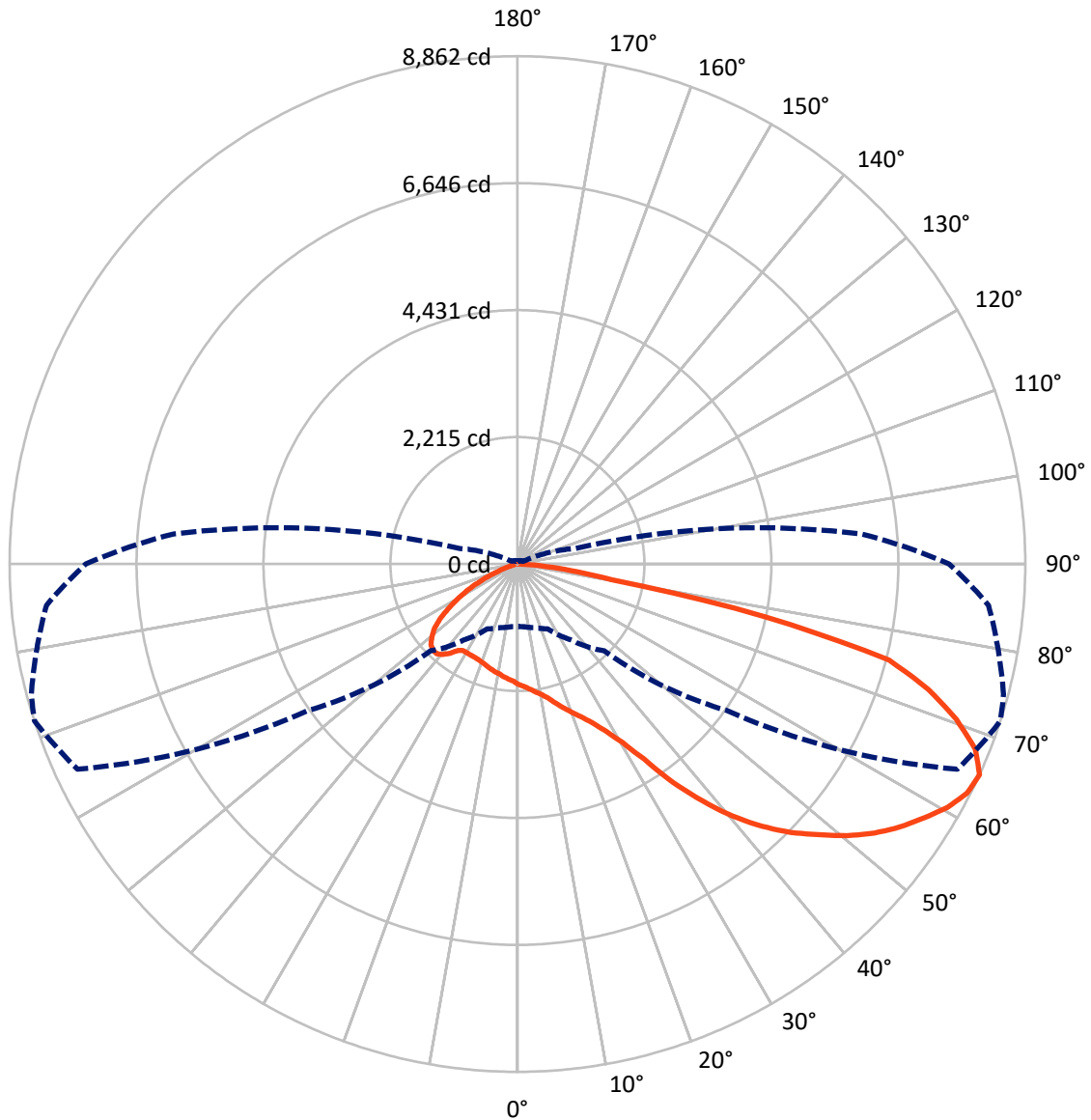
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233917
CATALOG NUMBER: VERD-G-C028-D-U-T2-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233917

CATALOG NUMBER: VERD-G-C028-D-U-T2-7030-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2478.5	0.0	2478.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9448.5	0.0	9448.5
	% Fixture	79.2	0.0	79.2
Total	Lumens	11927.0	0.0	11927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	1.7
10°-20°	611.6	5.1
20°-30°	1021.9	8.6
30°-40°	1511.7	12.7
40°-50°	2089.8	17.5
50°-60°	2445.5	20.5
60°-70°	2430.8	20.4
70°-80°	1455.8	12.2
80°-90°	158.5	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°	11927.0	100.0
0°-180°	11927.0	100.0

Coefficient of Utilization



REPORT NUMBER: P233917

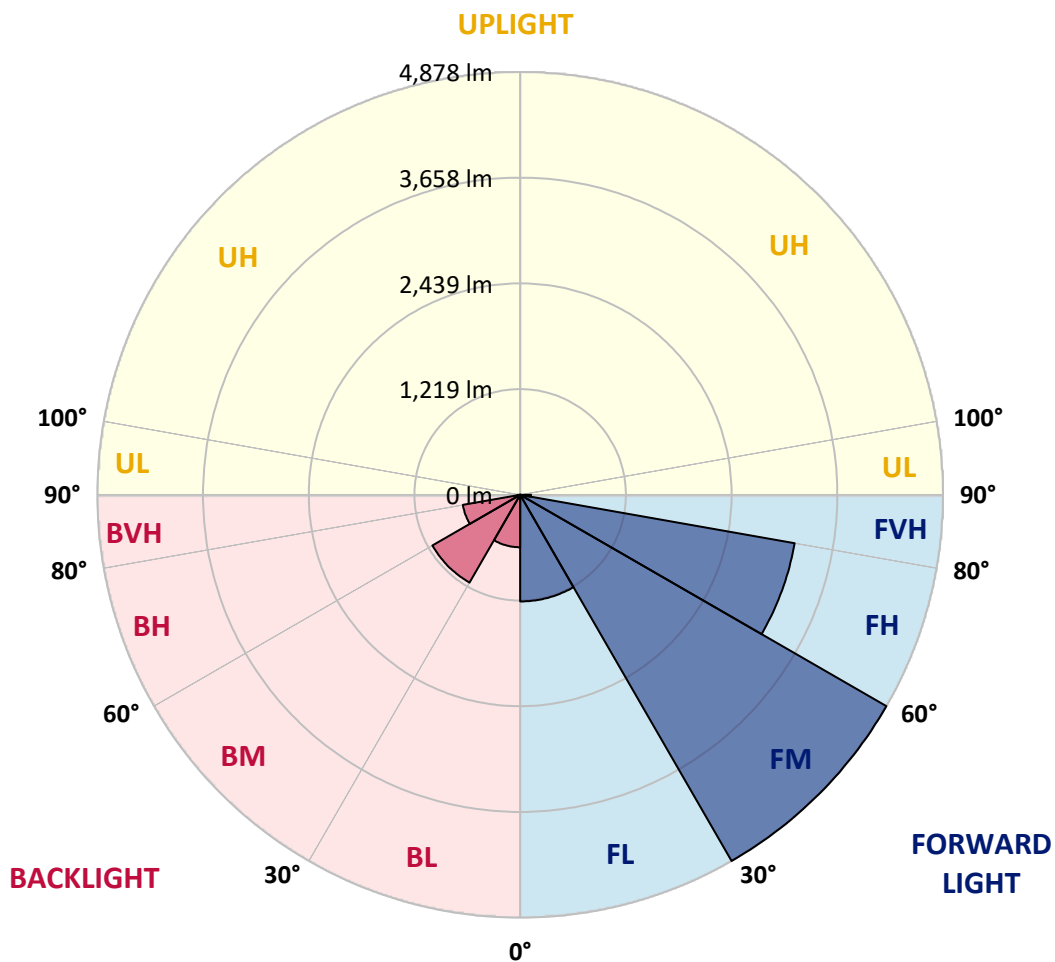
CATALOG NUMBER: VERD-G-C028-D-U-T2-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1229.9	10.3			
FM	(30°-60°)	4877.8	40.9			
FH	(60°-80°)	3215.5	27.0			G2/5000
FVH	(80°-90°)	125.3	1.1			G2/225
BL	(0°-30°)	605.1	5.1	B2/1000		
BM	(30°-60°)	1169.2	9.8	B2/2500		
BH	(60°-80°)	671.0	5.6	B2/1000		G2/1000
BVH	(80°-90°)	33.2	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





REPORT NUMBER: P233917

CATALOG NUMBER: VERD-G-C028-D-U-T2-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0
2.5°	2279.1	2281.1	2282.1	2246.0	2226.6	2204.2	2182.8	2159.4	2135.1	2126.4	2094.2
5°	2419.3	2421.2	2415.4	2382.3	2346.3	2313.2	2272.3	2230.5	2189.6	2177.9	2123.4
7.5°	2554.5	2553.6	2548.7	2506.9	2462.1	2418.3	2360.9	2304.4	2250.9	2232.4	2151.7
10°	2666.5	2668.4	2671.3	2626.6	2582.8	2530.2	2460.1	2376.5	2315.1	2285.9	2180.8
12.5°	2789.1	2783.2	2791.0	2747.2	2686.9	2639.2	2575.9	2477.7	2404.7	2367.7	2237.3
15°	2929.2	2929.2	2918.5	2882.5	2821.2	2762.8	2699.5	2609.0	2521.5	2465.0	2313.2
17.5°	3025.5	3019.7	3016.8	2985.6	2933.1	2882.5	2833.8	2741.4	2646.0	2576.9	2384.2
20°	3066.4	3068.4	3082.0	3059.6	3031.4	3001.2	2947.7	2875.7	2770.6	2696.6	2460.1
22.5°	3145.2	3147.2	3163.7	3148.2	3140.4	3132.6	3083.0	3019.7	2907.8	2836.8	2555.5
25°	3150.1	3152.1	3196.8	3222.1	3262.0	3280.5	3246.5	3192.0	3078.1	3009.0	2697.6
27.5°	3164.7	3170.5	3216.3	3286.4	3391.5	3428.4	3409.0	3407.0	3310.7	3237.7	2882.5
30°	3152.1	3157.9	3224.1	3321.4	3467.4	3576.4	3598.7	3656.2	3617.2	3562.7	3139.4
32.5°	3062.5	3083.9	3162.8	3317.5	3532.6	3730.1	3802.1	3998.7	4057.1	4062.9	3655.2
35°	2900.0	2911.7	3054.7	3272.7	3576.4	3875.1	4073.6	4436.6	4683.8	4673.1	4226.4
37.5°	2776.4	2780.3	2927.3	3196.8	3600.7	4030.8	4383.1	4964.1	5248.2	5260.9	4742.2
40°	2617.8	2646.0	2787.1	3105.3	3587.1	4162.2	4690.6	5455.5	5786.4	5772.8	5194.7
42.5°	2469.9	2486.4	2626.6	2962.3	3537.4	4262.4	4992.3	5931.4	6256.4	6211.7	5628.7
45°	2316.1	2344.3	2472.8	2777.4	3439.1	4318.9	5265.8	6382.9	6680.7	6625.3	6011.2
47.5°	2162.4	2182.8	2319.0	2608.1	3254.2	4316.9	5534.3	6806.3	7057.3	7018.4	6373.2
50°	1645.6	1690.4	2048.5	2430.9	2994.4	4235.2	5751.4	7208.2	7452.4	7392.1	6726.5
52.5°	1508.4	1523.0	1623.2	2225.6	2717.1	4040.6	5920.7	7585.8	7800.8	7731.7	7059.3
55°	1425.7	1443.2	1484.1	1809.1	2489.3	3720.4	5990.8	7938.0	8098.6	8028.6	7356.1
57.5°	1315.7	1333.2	1414.0	1558.0	2251.9	3232.8	5887.6	8250.4	8362.3	8285.5	7631.5
60°	1239.8	1247.6	1325.4	1438.3	1992.1	2740.4	5543.1	8504.4	8621.2	8529.7	7904.0
62.5°	1169.7	1178.5	1234.0	1345.9	1777.0	2379.4	5006.9	8566.7	8805.1	8734.1	8153.1
65°	1089.0	1096.7	1147.4	1246.6	1610.6	2143.9	4454.1	8471.3	8861.6	8780.8	8249.5
67.5°	981.9	992.6	1032.5	1122.1	1392.6	1877.2	3631.8	8295.2	8614.4	8530.7	8051.9
70°	849.6	854.4	902.1	982.9	1176.5	1629.1	2848.4	7668.5	8124.9	8032.4	7495.3
72.5°	686.1	694.8	746.4	831.1	966.3	1342.0	2034.9	6626.2	7505.0	7470.0	6684.6
75°	458.4	492.4	615.0	700.7	799.0	1048.1	1366.3	4650.7	6700.2	6727.4	5710.5
77.5°	87.6	90.5	257.9	383.4	467.1	640.3	845.7	2285.0	4416.2	4894.0	4306.2
80°	57.4	62.3	110.0	268.6	309.5	317.2	434.0	1001.4	1664.1	2104.9	2483.5
82.5°	30.2	36.0	66.2	155.7	142.1	78.8	142.1	516.7	922.6	1059.8	1252.5
85°	12.7	14.6	32.1	53.5	39.9	33.1	33.1	206.3	408.7	473.0	491.4
87.5°	1.9	1.9	6.8	9.7	5.8	3.9	2.9	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P233917

CATALOG NUMBER: VERD-G-C028-D-U-T2-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0	2102.0
2.5°	2094.2	2076.7	2052.4	2024.2	2003.7	1993.0	1984.3	1960.9	1953.1	1968.7	1964.8
5°	2103.0	2082.6	2027.1	1981.3	1935.6	1907.4	1876.2	1835.4	1817.9	1827.6	1824.7
7.5°	2108.8	2083.5	2000.8	1929.8	1852.9	1799.4	1758.5	1705.0	1678.7	1688.4	1676.8
10°	2117.6	2079.6	1969.7	1875.3	1775.0	1697.2	1636.9	1574.6	1547.3	1555.1	1545.4
12.5°	2154.6	2093.3	1955.1	1828.6	1705.9	1608.6	1532.7	1466.5	1427.6	1435.4	1427.6
15°	2214.9	2120.5	1933.7	1769.2	1633.0	1522.0	1434.4	1358.5	1313.8	1324.5	1314.7
17.5°	2278.2	2153.6	1914.2	1703.0	1555.1	1431.5	1340.0	1275.8	1203.8	1210.6	1196.0
20°	2332.7	2184.7	1903.5	1640.7	1482.1	1335.2	1225.2	1181.4	1082.2	1056.8	1040.3
22.5°	2408.6	2230.5	1894.7	1590.1	1391.6	1238.8	1108.4	1026.7	919.6	866.1	861.2
25°	2516.6	2298.6	1893.8	1550.2	1309.9	1137.6	955.6	818.4	724.0	660.8	652.0
27.5°	2653.8	2389.1	1904.5	1510.3	1228.1	1010.1	767.8	616.0	531.3	482.7	473.9
30°	2851.4	2507.8	1918.1	1464.6	1136.6	844.7	572.2	453.5	383.4	348.4	341.6
32.5°	3274.7	2812.4	1938.5	1416.9	1026.7	636.4	415.5	328.9	275.4	254.0	264.7
35°	3784.6	3226.0	2030.0	1355.6	882.7	453.5	299.7	234.5	197.6	202.4	208.3
37.5°	4230.3	3621.1	2235.3	1276.8	690.0	332.8	206.3	175.2	175.2	190.7	204.4
40°	4650.7	3977.3	2419.3	1169.7	483.7	229.7	159.6	162.5	159.6	169.3	166.4
42.5°	5047.8	4315.0	2563.3	1042.3	316.3	158.6	145.0	150.8	146.0	147.9	139.2
45°	5423.4	4664.3	2643.1	854.4	210.2	138.2	133.3	143.1	142.1	140.1	131.4
47.5°	5770.8	4971.9	2683.0	616.0	145.0	124.6	125.5	132.3	135.3	133.3	128.5
50°	6111.4	5278.4	2647.0	368.8	130.4	113.9	120.7	120.7	126.5	115.8	111.9
52.5°	6437.4	5585.9	2533.1	223.8	119.7	106.1	111.9	110.0	112.9	102.2	100.2
55°	6744.0	5814.6	2308.3	176.1	112.9	101.2	102.2	104.1	99.3	87.6	91.5
57.5°	7068.0	6009.3	1995.0	159.6	110.0	94.4	96.3	95.4	87.6	76.9	76.9
60°	7334.7	6150.4	1680.6	145.0	108.0	92.5	85.6	83.7	72.0	66.2	65.2
62.5°	7518.6	6190.3	1374.1	129.4	102.2	85.6	76.9	71.0	60.3	54.5	52.6
65°	7533.2	6020.0	1046.1	116.8	96.3	79.8	71.0	58.4	47.7	42.8	40.9
67.5°	7234.5	5547.0	737.7	107.0	86.6	74.0	62.3	46.7	38.0	34.1	33.1
70°	6609.7	4959.2	451.5	93.4	78.8	69.1	64.2	38.0	31.1	26.3	26.3
72.5°	5800.0	4295.5	264.7	79.8	66.2	55.5	42.8	32.1	26.3	20.4	20.4
75°	4970.9	3409.9	162.5	60.3	48.7	43.8	33.1	27.2	21.4	15.6	15.6
77.5°	3579.3	2517.6	126.5	38.9	30.2	31.1	24.3	21.4	17.5	12.7	12.7
80°	2196.4	1532.7	90.5	26.3	17.5	17.5	17.5	16.5	12.7	10.7	9.7
82.5°	1113.3	700.7	44.8	15.6	10.7	10.7	10.7	11.7	9.7	7.8	7.8
85°	391.2	196.6	13.6	7.8	6.8	6.8	5.8	5.8	4.9	3.9	3.9
87.5°	1.0	1.9	1.9	2.9	3.9	3.9	2.9	1.9	1.0	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)