

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: P233699

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233699
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-HSS
Description: VERDEON 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: 13475 lumens
Efficiency: N/A
Efficacy: 112.3 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

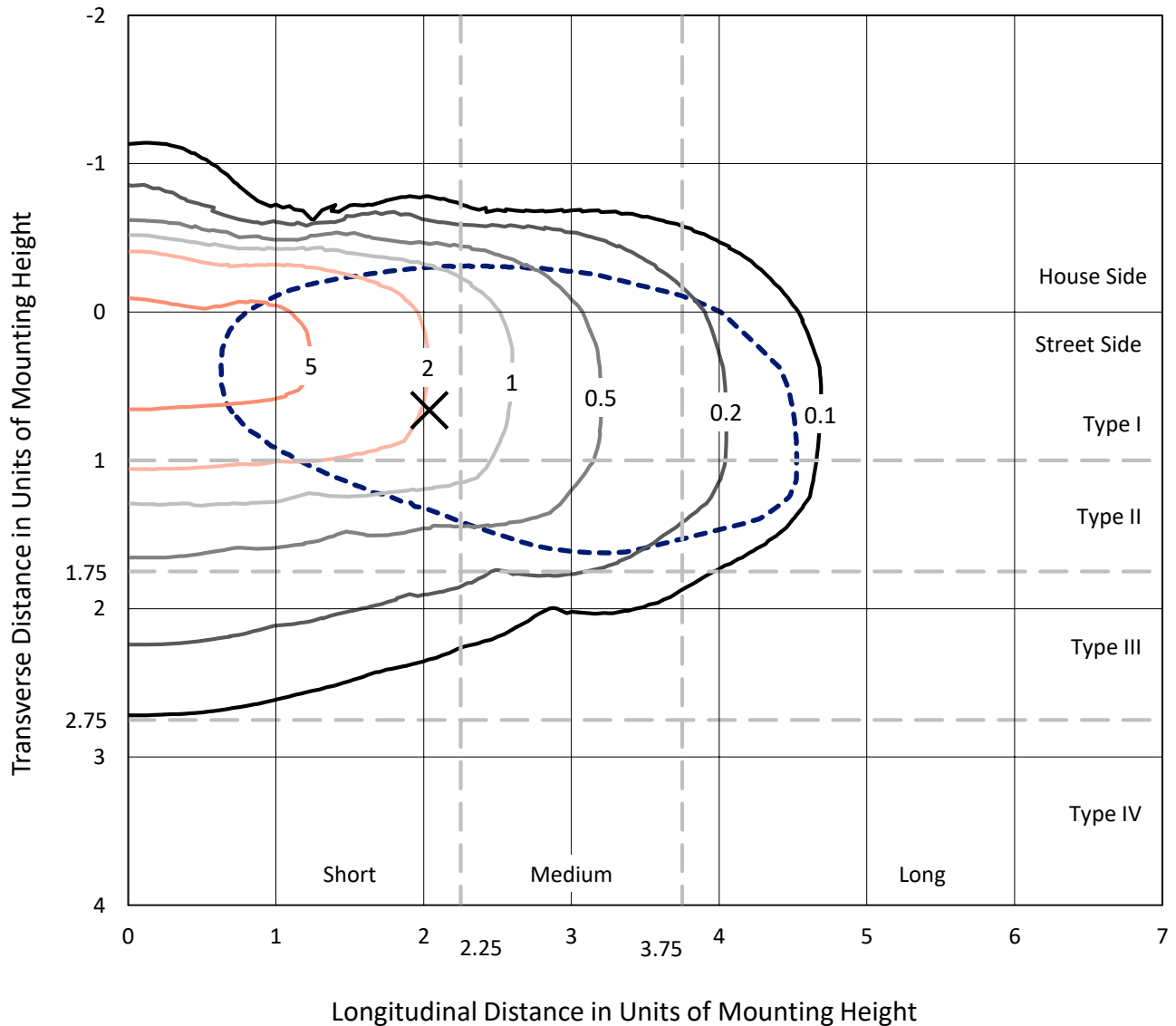


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

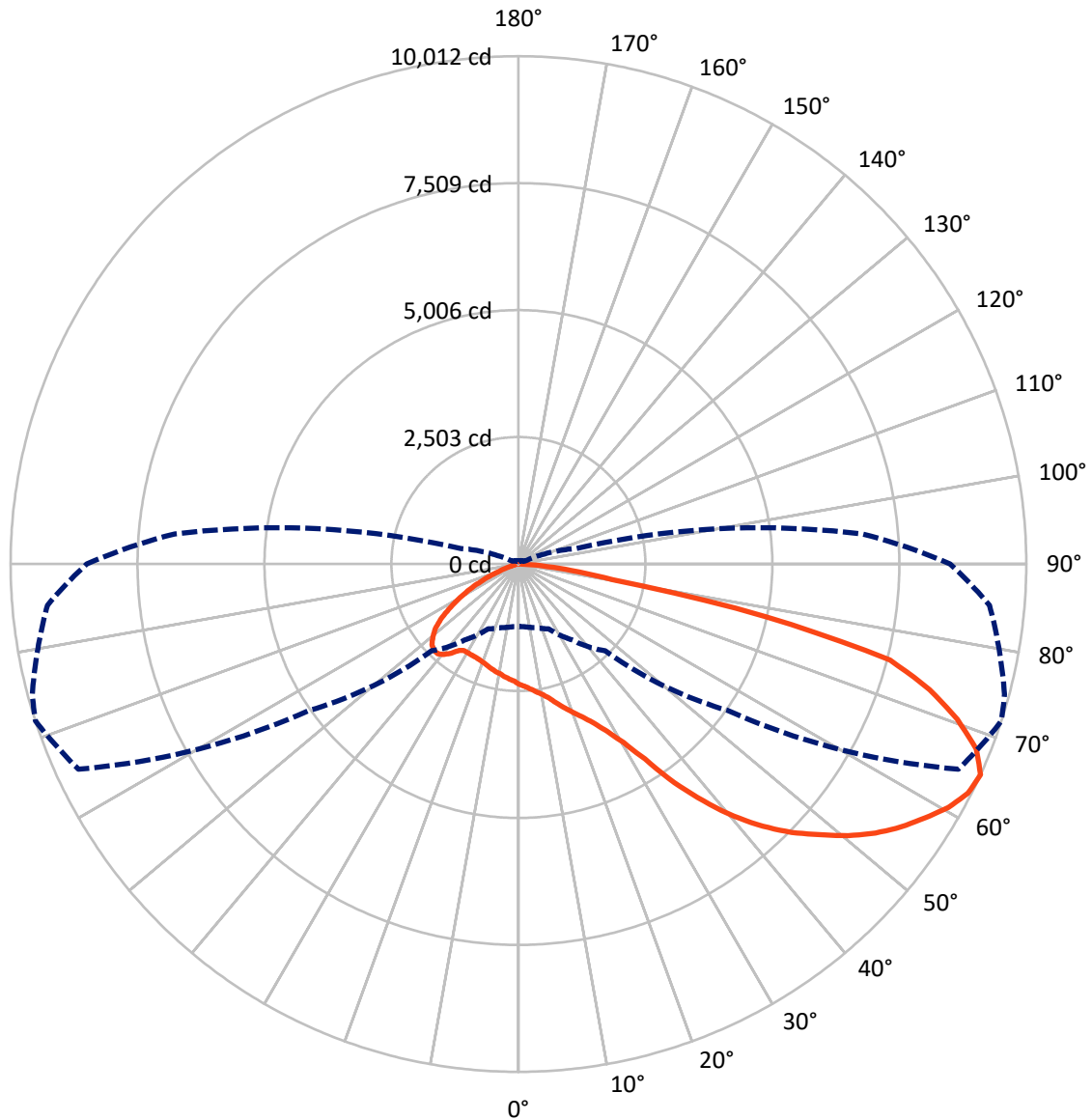


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Non-Cutoff

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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	2800.2	0.0	2800.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	10674.8	0.0	10674.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	13475.0	0.0	13475.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	1.7
10°-20°	690.9	5.1
20°-30°	1154.6	8.6
30°-40°	1707.9	12.7
40°-50°	2361.1	17.5
50°-60°	2762.9	20.5
60°-70°	2746.2	20.4
70°-80°	1644.8	12.2
80°-90°	179.0	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°	13475.0	100.0
0°-180°	13475.0	100.0



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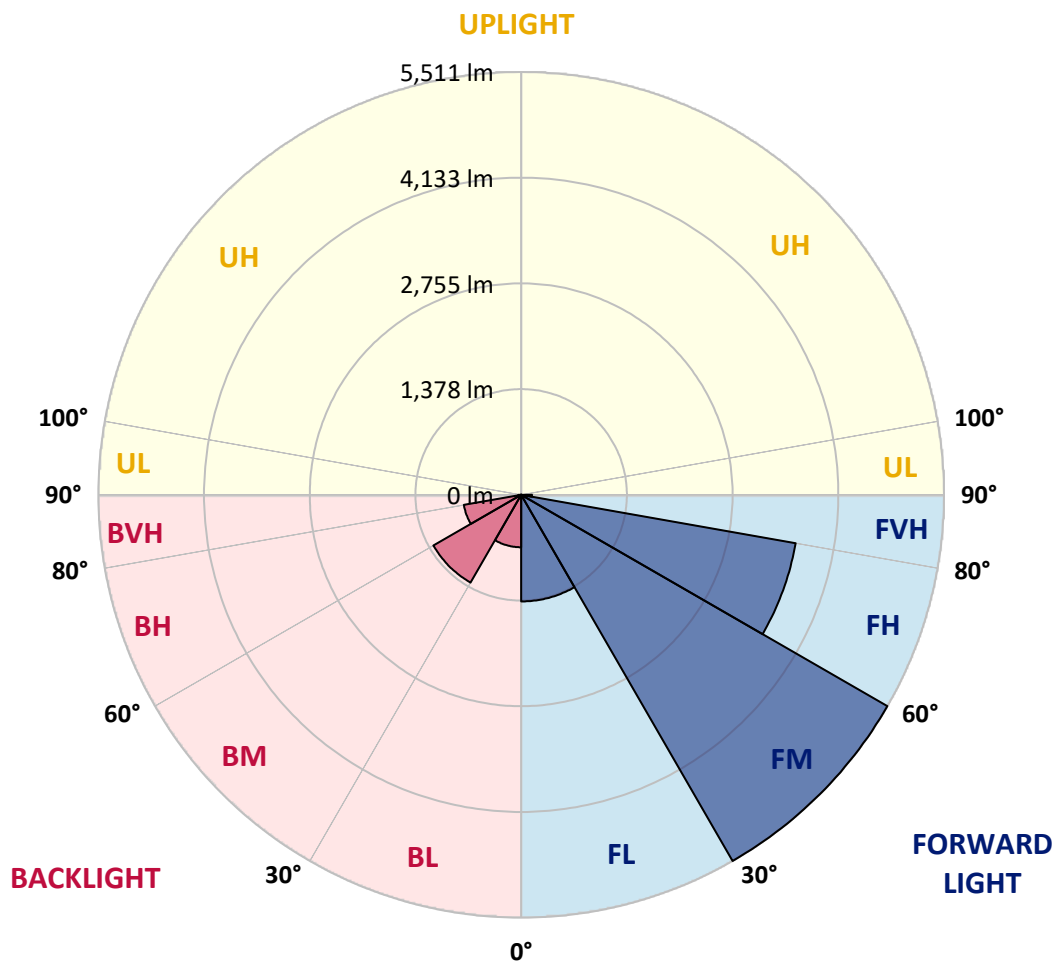
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.5	10.3			
FM (30°-60°)	5510.9	40.9			
FH (60°-80°)	3632.9	27.0			G2/5000
FVH (80°-90°)	141.5	1.1			G2/225
BL (0°-30°)	683.6	5.1	B2/1000		
BM (30°-60°)	1320.9	9.8	B2/2500		
BH (60°-80°)	758.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	37.5	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°	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8
2.5°	2574.9	2577.1	2578.2	2537.6	2515.6	2490.3	2466.1	2439.7	2412.2	2402.3	2366.0
5°	2733.3	2735.5	2728.9	2691.5	2650.8	2613.4	2567.2	2520.0	2473.8	2460.6	2399.0
7.5°	2886.1	2885.0	2879.5	2832.2	2781.6	2732.2	2667.3	2603.5	2543.1	2522.2	2430.9
10°	3012.5	3014.7	3018.0	2967.5	2918.0	2858.6	2779.4	2684.9	2615.6	2582.6	2463.9
12.5°	3151.1	3144.5	3153.3	3103.8	3035.6	2981.7	2910.3	2799.2	2716.8	2675.0	2527.7
15°	3309.4	3309.4	3297.3	3256.6	3187.3	3121.4	3049.9	2947.7	2848.7	2784.9	2613.4
17.5°	3418.2	3411.6	3408.3	3373.2	3313.8	3256.6	3201.6	3097.2	2989.4	2911.4	2693.7
20°	3464.4	3466.6	3482.0	3456.7	3424.8	3390.7	3330.3	3248.9	3130.2	3046.6	2779.4
22.5°	3553.5	3555.7	3574.4	3556.8	3548.0	3539.2	3483.1	3411.6	3285.2	3204.9	2887.2
25°	3559.0	3561.2	3611.7	3640.3	3685.4	3706.3	3667.8	3606.2	3477.6	3399.5	3047.7
27.5°	3575.5	3582.1	3633.7	3712.9	3831.6	3873.4	3851.4	3849.2	3740.4	3657.9	3256.6
30°	3561.2	3567.8	3642.5	3752.5	3917.4	4040.5	4065.8	4130.7	4086.7	4025.1	3546.9
32.5°	3460.0	3484.2	3573.3	3748.1	3991.1	4214.2	4295.6	4517.7	4583.7	4590.3	4129.6
35°	3276.4	3289.6	3451.2	3697.5	4040.5	4378.1	4602.4	5012.5	5291.7	5279.6	4775.0
37.5°	3136.8	3141.2	3307.2	3611.7	4068.0	4554.0	4952.0	5608.4	5929.4	5943.7	5357.7
40°	2957.6	2989.4	3148.9	3508.4	4052.6	4702.4	5299.4	6163.6	6537.4	6522.0	5868.9
42.5°	2790.4	2809.1	2967.5	3346.8	3996.6	4815.7	5640.2	6701.2	7068.5	7017.9	6359.3
45°	2616.7	2648.6	2793.7	3137.9	3885.5	4879.4	5949.2	7211.4	7547.8	7485.1	6791.4
47.5°	2443.0	2466.1	2620.0	2946.6	3676.6	4877.2	6252.6	7689.6	7973.3	7929.3	7200.4
50°	1859.2	1909.8	2314.4	2746.5	3383.0	4784.9	6497.8	8143.7	8419.7	8351.5	7599.5
52.5°	1704.2	1720.7	1833.9	2514.5	3069.7	4565.0	6689.1	8570.3	8813.3	8735.2	7975.5
55°	1610.7	1630.5	1676.7	2043.9	2812.4	4203.2	6768.3	8968.3	9149.7	9070.6	8310.8
57.5°	1486.5	1506.3	1597.5	1760.2	2544.2	3652.4	6651.8	9321.3	9447.7	9360.8	8622.0
60°	1400.7	1409.5	1497.5	1625.0	2250.6	3096.1	6262.5	9608.2	9740.1	9636.8	8929.8
62.5°	1321.6	1331.5	1394.1	1520.6	2007.6	2688.2	5656.7	9678.6	9947.9	9867.7	9211.3
65°	1230.3	1239.1	1296.3	1408.4	1819.6	2422.1	5032.2	9570.8	10011.7	9920.5	9320.2
67.5°	1109.4	1121.5	1166.5	1267.7	1573.3	2120.9	4103.2	9371.8	9732.5	9637.9	9097.0
70°	959.8	965.3	1019.2	1110.5	1329.3	1840.5	3218.1	8663.8	9179.4	9075.0	8468.1
72.5°	775.1	785.0	843.3	938.9	1091.8	1516.2	2299.0	7486.2	8479.1	8439.5	7552.2
75°	517.8	556.3	694.9	791.6	902.7	1184.1	1543.6	5254.3	7569.8	7600.6	6451.7
77.5°	99.0	102.3	291.4	433.2	527.7	723.4	955.4	2581.5	4989.4	5529.2	4865.1
80°	64.9	70.4	124.2	303.5	349.6	358.4	490.4	1131.3	1880.1	2378.1	2805.8
82.5°	34.1	40.7	74.8	175.9	160.5	89.1	160.5	583.8	1042.3	1197.3	1415.0
85°	14.3	16.5	36.3	60.5	45.1	37.4	37.4	233.1	461.8	534.3	555.2
87.5°	2.2	2.2	7.7	11.0	6.6	4.4	3.3	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°	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8
2.5°	2366.0	2346.3	2318.8	2286.9	2263.8	2251.7	2241.8	2215.4	2206.6	2224.2	2219.8
5°	2375.9	2352.9	2290.2	2238.5	2186.8	2154.9	2119.8	2073.6	2053.8	2064.8	2061.5
7.5°	2382.5	2354.0	2260.5	2180.2	2093.4	2032.9	1986.7	1926.3	1896.6	1907.6	1894.4
10°	2392.4	2349.6	2225.3	2118.7	2005.4	1917.5	1849.3	1778.9	1748.1	1756.9	1745.9
12.5°	2434.2	2364.9	2208.8	2065.9	1927.4	1817.4	1731.7	1656.9	1612.9	1621.7	1612.9
15°	2502.4	2395.7	2184.6	1998.8	1844.9	1719.6	1620.6	1534.9	1484.3	1496.4	1485.4
17.5°	2573.8	2433.1	2162.6	1924.1	1756.9	1617.3	1514.0	1441.4	1360.0	1367.7	1351.2
20°	2635.4	2468.3	2150.6	1853.7	1674.5	1508.5	1384.2	1334.7	1222.6	1194.0	1175.3
22.5°	2721.2	2520.0	2140.7	1796.5	1572.2	1399.6	1252.3	1159.9	1039.0	978.5	973.0
25°	2843.2	2596.9	2139.6	1751.4	1479.9	1285.3	1079.7	924.6	818.0	746.5	736.6
27.5°	2998.2	2699.2	2151.7	1706.4	1387.5	1141.2	867.5	696.0	600.3	545.3	535.4
30°	3221.4	2833.3	2167.0	1654.7	1284.2	954.3	646.5	512.4	433.2	393.6	385.9
32.5°	3699.7	3177.4	2190.1	1600.8	1159.9	719.0	469.5	371.6	311.1	287.0	299.1
35°	4275.8	3644.7	2293.5	1531.6	997.2	512.4	338.6	265.0	223.2	228.7	235.3
37.5°	4779.4	4091.1	2525.5	1442.5	779.5	376.0	233.1	197.9	197.9	215.5	230.9
40°	5254.3	4493.5	2733.3	1321.6	546.4	259.5	180.3	183.6	180.3	191.3	188.0
42.5°	5702.9	4875.0	2896.0	1177.5	357.3	179.2	163.8	170.4	164.9	167.1	157.2
45°	6127.3	5269.7	2986.1	965.3	237.5	156.1	150.6	161.6	160.5	158.3	148.4
47.5°	6519.8	5617.2	3031.2	696.0	163.8	140.7	141.8	149.5	152.8	150.6	145.1
50°	6904.6	5963.5	2990.5	416.7	147.3	128.6	136.3	136.3	142.9	130.8	126.4
52.5°	7273.0	6310.9	2861.9	252.9	135.2	119.8	126.4	124.2	127.5	115.4	113.2
55°	7619.3	6569.3	2607.9	199.0	127.5	114.3	115.4	117.6	112.1	99.0	103.3
57.5°	7985.4	6789.2	2253.9	180.3	124.2	106.6	108.8	107.7	99.0	86.9	86.9
60°	8286.7	6948.6	1898.8	163.8	122.0	104.4	96.8	94.6	81.4	74.8	73.7
62.5°	8494.5	6993.7	1552.4	146.2	115.4	96.8	86.9	80.3	68.2	61.6	59.4
65°	8510.9	6801.3	1181.9	131.9	108.8	90.2	80.3	66.0	53.9	48.4	46.2
67.5°	8173.4	6266.9	833.4	120.9	97.9	83.6	70.4	52.8	42.9	38.5	37.4
70°	7467.6	5602.9	510.2	105.5	89.1	78.1	72.6	42.9	35.2	29.7	29.7
72.5°	6552.8	4853.0	299.1	90.2	74.8	62.7	48.4	36.3	29.7	23.1	23.1
75°	5616.1	3852.5	183.6	68.2	55.0	49.5	37.4	30.8	24.2	17.6	17.6
77.5°	4043.8	2844.3	142.9	44.0	34.1	35.2	27.5	24.2	19.8	14.3	14.3
80°	2481.5	1731.7	102.3	29.7	19.8	19.8	19.8	18.7	14.3	12.1	11.0
82.5°	1257.8	791.6	50.6	17.6	12.1	12.1	12.1	13.2	11.0	8.8	8.8
85°	442.0	222.1	15.4	8.8	7.7	7.7	6.6	6.6	5.5	4.4	4.4
87.5°	1.1	2.2	2.2	3.3	4.4	4.4	3.3	2.2	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)