

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: P233685

Luminaire Tested: **VERD-C02H8-D-U-T2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233685
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-C02H8-D-U-T2-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 960mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12309 lumens
Efficiency: N/A
Efficacy: 111.9 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

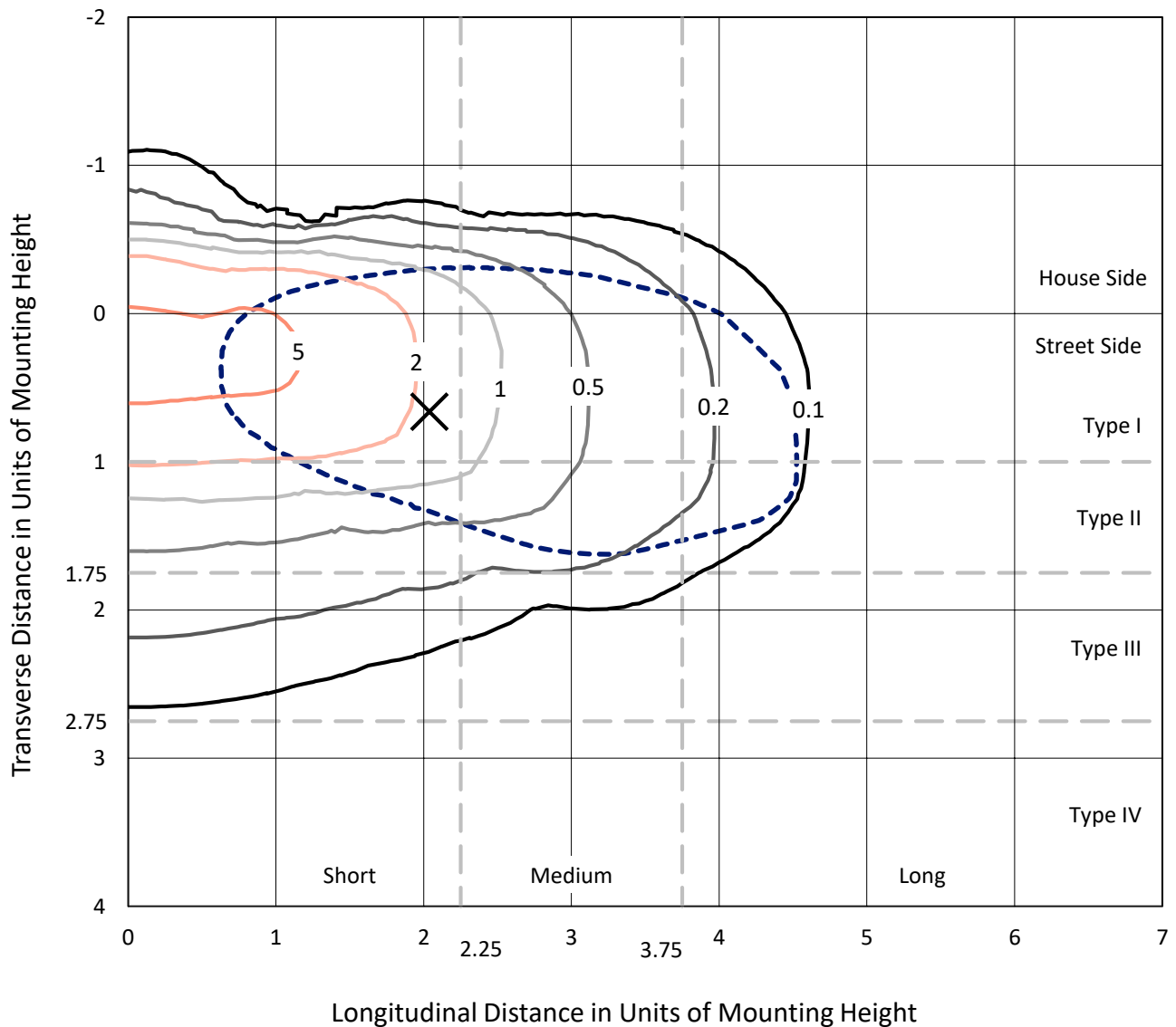
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

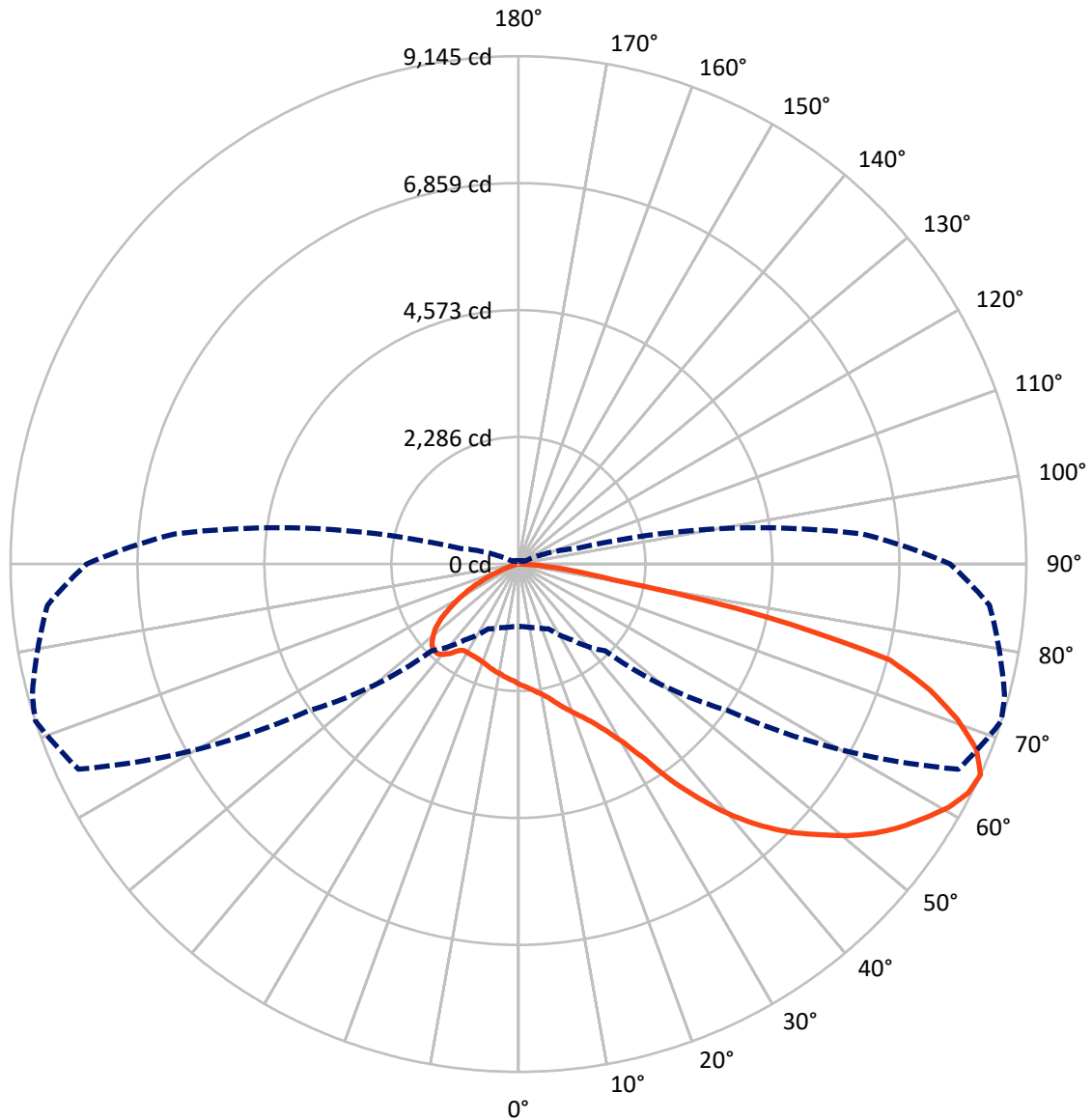


Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - Non-Cutoff

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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	2557.9	0.0	2557.9
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9751.1	0.0	9751.1
	% Fixture	79.2	0.0	79.2
Total	Lumens	12309.0	0.0	12309.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	1.7
10°-20°	631.1	5.1
20°-30°	1054.7	8.6
30°-40°	1560.1	12.7
40°-50°	2156.8	17.5
50°-60°	2523.8	20.5
60°-70°	2508.6	20.4
70°-80°	1502.5	12.2
80°-90°	163.5	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°	12309.0	100.0
0°-180°	12309.0	100.0



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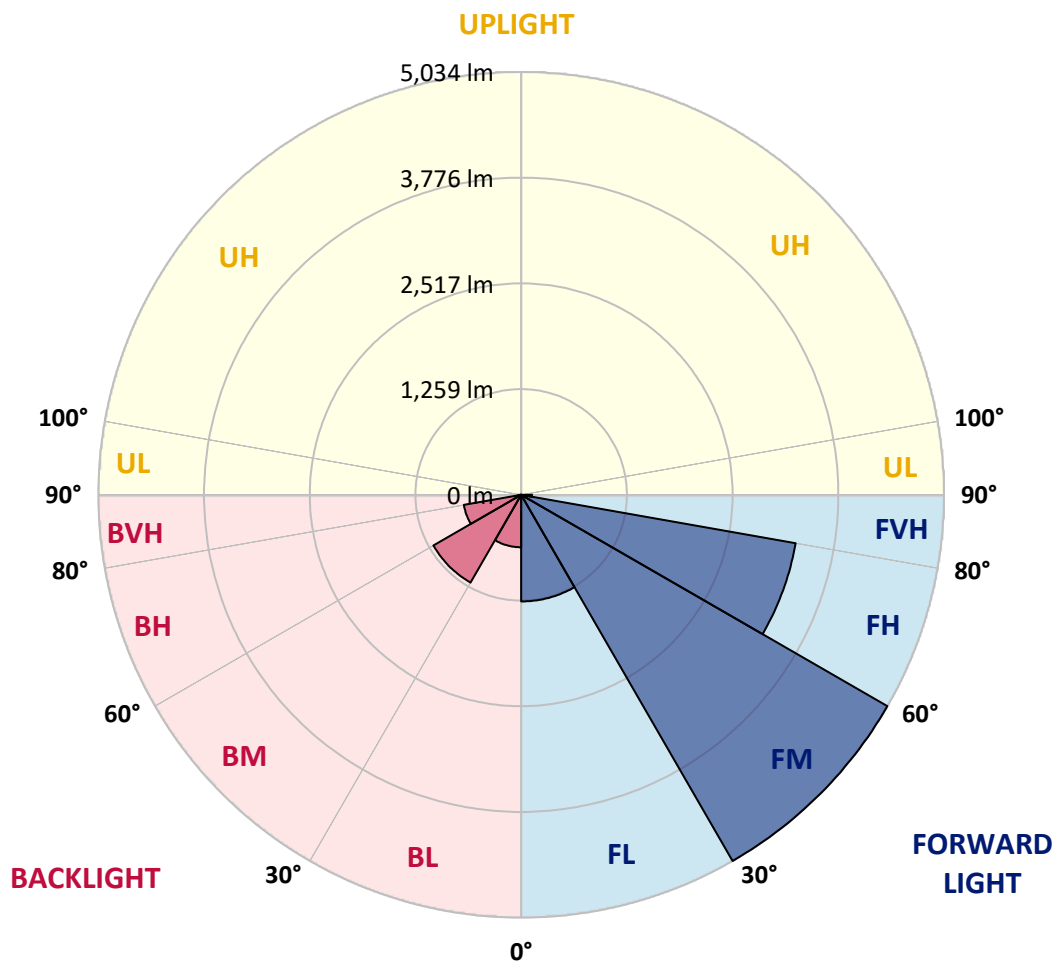
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1269.3	10.3			
FM	(30°-60°)	5034.0	40.9			
FH	(60°-80°)	3318.5	27.0			G2/5000
FVH	(80°-90°)	129.3	1.1			G2/225
BL	(0°-30°)	624.4	5.1	B2/1000		
BM	(30°-60°)	1206.6	9.8	B2/2500		
BH	(60°-80°)	692.5	5.6	B2/1000		G2/1000
BVH	(80°-90°)	34.3	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°	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3
2.5°	2352.1	2354.1	2355.1	2318.0	2297.9	2274.8	2252.7	2228.6	2203.5	2194.5	2161.3
5°	2496.8	2498.8	2492.7	2458.6	2421.4	2387.3	2345.1	2301.9	2259.7	2247.7	2191.4
7.5°	2636.4	2635.4	2630.3	2587.1	2540.9	2495.8	2436.5	2378.2	2323.0	2303.9	2220.6
10°	2751.9	2753.9	2756.9	2710.7	2665.5	2611.2	2538.9	2452.6	2389.3	2359.2	2250.7
12.5°	2878.4	2872.4	2880.4	2835.2	2772.9	2723.7	2658.5	2557.0	2481.7	2443.5	2308.9
15°	3023.0	3023.0	3012.0	2974.8	2911.5	2851.3	2786.0	2692.6	2602.2	2544.0	2387.3
17.5°	3122.5	3116.4	3113.4	3081.3	3027.0	2974.8	2924.6	2829.2	2730.8	2659.5	2460.6
20°	3164.6	3166.6	3180.7	3157.6	3128.5	3097.3	3042.1	2967.8	2859.3	2783.0	2538.9
22.5°	3246.0	3248.0	3265.1	3249.0	3241.0	3232.9	3181.7	3116.4	3000.9	2927.6	2637.4
25°	3251.0	3253.0	3299.2	3325.3	3366.5	3385.6	3350.4	3294.2	3176.7	3105.4	2784.0
27.5°	3266.1	3272.1	3319.3	3391.6	3500.1	3538.2	3518.2	3516.1	3416.7	3341.4	2974.8
30°	3253.0	3259.0	3327.3	3427.8	3578.4	3690.9	3714.0	3773.3	3733.1	3676.8	3240.0
32.5°	3160.6	3182.7	3264.1	3423.7	3645.7	3849.6	3923.9	4126.8	4187.0	4193.1	3772.2
35°	2992.9	3004.9	3152.6	3377.5	3690.9	3999.2	4204.1	4578.7	4833.8	4822.8	4361.8
37.5°	2865.3	2869.4	3021.0	3299.2	3716.0	4159.9	4523.5	5123.1	5416.3	5429.4	4894.1
40°	2701.6	2730.8	2876.4	3204.8	3701.9	4295.5	4840.9	5630.3	5971.7	5957.7	5361.1
42.5°	2549.0	2566.1	2710.7	3057.2	3650.7	4398.9	5152.2	6121.4	6456.8	6410.6	5809.0
45°	2390.3	2419.4	2552.0	2866.3	3549.3	4457.2	5434.4	6587.4	6894.7	6837.5	6203.7
47.5°	2231.6	2252.7	2393.3	2691.6	3358.5	4455.2	5711.6	7024.3	7283.4	7243.2	6577.3
50°	1698.3	1744.5	2114.1	2508.8	3090.3	4370.8	5935.6	7439.0	7691.1	7628.9	6941.9
52.5°	1556.7	1571.8	1675.2	2296.9	2804.1	4170.0	6110.3	7828.7	8050.7	7979.4	7285.4
55°	1471.3	1489.4	1531.6	1867.0	2569.1	3839.5	6182.6	8192.3	8358.0	8285.7	7591.7
57.5°	1357.8	1375.9	1459.3	1607.9	2324.0	3336.4	6076.2	8514.7	8630.2	8550.8	7875.9
60°	1279.5	1287.5	1367.9	1484.4	2055.9	2828.2	5720.6	8776.8	8897.3	8802.9	8157.1
62.5°	1207.2	1216.2	1273.5	1389.0	1833.9	2455.6	5167.3	8841.1	9087.1	9013.8	8414.2
65°	1123.8	1131.9	1184.1	1286.5	1662.2	2212.5	4596.8	8742.7	9145.4	9062.0	8513.7
67.5°	1013.4	1024.4	1065.6	1158.0	1437.2	1937.3	3748.1	8560.9	8890.3	8803.9	8309.8
70°	876.8	881.8	931.0	1014.4	1214.2	1681.2	2939.7	7914.1	8385.1	8289.7	7735.3
72.5°	708.1	717.1	770.3	857.7	997.3	1385.0	2100.0	6838.5	7745.4	7709.2	6898.7
75°	473.0	508.2	634.7	723.1	824.6	1081.7	1410.1	4799.7	6914.8	6942.9	5893.4
77.5°	90.4	93.4	266.1	395.7	482.1	660.8	872.8	2358.2	4557.6	5050.8	4444.1
80°	59.3	64.3	113.5	277.2	319.4	327.4	447.9	1033.5	1717.4	2172.4	2563.0
82.5°	31.1	37.2	68.3	160.7	146.6	81.4	146.6	533.3	952.1	1093.7	1292.6
85°	13.1	15.1	33.1	55.2	41.2	34.1	34.1	212.9	421.8	488.1	507.2
87.5°	2.0	2.0	7.0	10.0	6.0	4.0	3.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3	2169.3
2.5°	2161.3	2143.2	2118.1	2089.0	2067.9	2056.9	2047.8	2023.7	2015.7	2031.8	2027.7
5°	2170.3	2149.3	2092.0	2044.8	1997.6	1968.5	1936.3	1894.2	1876.1	1886.1	1883.1
7.5°	2176.4	2150.3	2064.9	1991.6	1912.2	1857.0	1814.8	1759.6	1732.5	1742.5	1730.5
10°	2185.4	2146.2	2032.8	1935.3	1831.9	1751.5	1689.3	1625.0	1596.9	1604.9	1594.9
12.5°	2223.6	2160.3	2017.7	1887.1	1760.6	1660.2	1581.8	1513.5	1473.3	1481.4	1473.3
15°	2285.8	2188.4	1995.6	1825.9	1685.3	1570.8	1480.4	1402.0	1355.8	1366.9	1356.8
17.5°	2351.1	2222.6	1975.5	1757.6	1604.9	1477.4	1383.0	1316.7	1242.4	1249.4	1234.3
20°	2407.4	2254.7	1964.5	1693.3	1529.6	1377.9	1264.4	1219.3	1116.8	1090.7	1073.6
22.5°	2485.7	2301.9	1955.4	1641.1	1436.2	1278.5	1143.9	1059.6	949.1	893.9	888.8
25°	2597.2	2372.2	1954.4	1599.9	1351.8	1174.1	986.2	844.6	747.2	681.9	672.9
27.5°	2738.8	2465.6	1965.5	1558.7	1267.5	1042.5	792.4	635.7	548.4	498.1	489.1
30°	2942.7	2588.1	1979.5	1511.5	1173.1	871.8	590.5	468.0	395.7	359.5	352.5
32.5°	3379.6	2902.5	2000.6	1462.3	1059.6	656.8	428.8	339.5	284.2	262.1	273.2
35°	3905.8	3329.3	2095.0	1399.0	910.9	468.0	309.3	242.0	203.9	208.9	214.9
37.5°	4365.8	3737.1	2306.9	1317.7	712.1	343.5	212.9	180.8	180.8	196.8	210.9
40°	4799.7	4104.7	2496.8	1207.2	499.2	237.0	164.7	167.7	164.7	174.8	171.7
42.5°	5209.4	4453.2	2645.4	1075.6	326.4	163.7	149.6	155.7	150.6	152.7	143.6
45°	5597.1	4813.7	2727.8	881.8	216.9	142.6	137.6	147.6	146.6	144.6	135.6
47.5°	5955.7	5131.1	2768.9	635.7	149.6	128.6	129.6	136.6	139.6	137.6	132.6
50°	6307.2	5447.5	2731.8	380.6	134.6	117.5	124.5	124.5	130.6	119.5	115.5
52.5°	6643.6	5764.8	2614.3	231.0	123.5	109.5	115.5	113.5	116.5	105.5	103.4
55°	6960.0	6000.9	2382.3	181.8	116.5	104.4	105.5	107.5	102.4	90.4	94.4
57.5°	7294.4	6201.7	2058.9	164.7	113.5	97.4	99.4	98.4	90.4	79.3	79.3
60°	7569.6	6347.3	1734.5	149.6	111.5	95.4	88.4	86.4	74.3	68.3	67.3
62.5°	7759.4	6388.5	1418.1	133.6	105.5	88.4	79.3	73.3	62.3	56.2	54.2
65°	7774.5	6212.8	1079.7	120.5	99.4	82.4	73.3	60.3	49.2	44.2	42.2
67.5°	7466.2	5724.7	761.3	110.5	89.4	76.3	64.3	48.2	39.2	35.2	34.1
70°	6821.4	5118.0	466.0	96.4	81.4	71.3	66.3	39.2	32.1	27.1	27.1
72.5°	5985.8	4433.1	273.2	82.4	68.3	57.2	44.2	33.1	27.1	21.1	21.1
75°	5130.1	3519.2	167.7	62.3	50.2	45.2	34.1	28.1	22.1	16.1	16.1
77.5°	3693.9	2598.2	130.6	40.2	31.1	32.1	25.1	22.1	18.1	13.1	13.1
80°	2266.8	1581.8	93.4	27.1	18.1	18.1	18.1	17.1	13.1	11.0	10.0
82.5°	1148.9	723.1	46.2	16.1	11.0	11.0	11.0	12.1	10.0	8.0	8.0
85°	403.7	202.9	14.1	8.0	7.0	7.0	6.0	6.0	5.0	4.0	4.0
87.5°	1.0	2.0	2.0	3.0	4.0	4.0	3.0	2.0	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)