

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: P509540

Luminaire Tested: **VERD-G-CA2-120-727-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-727-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13780 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

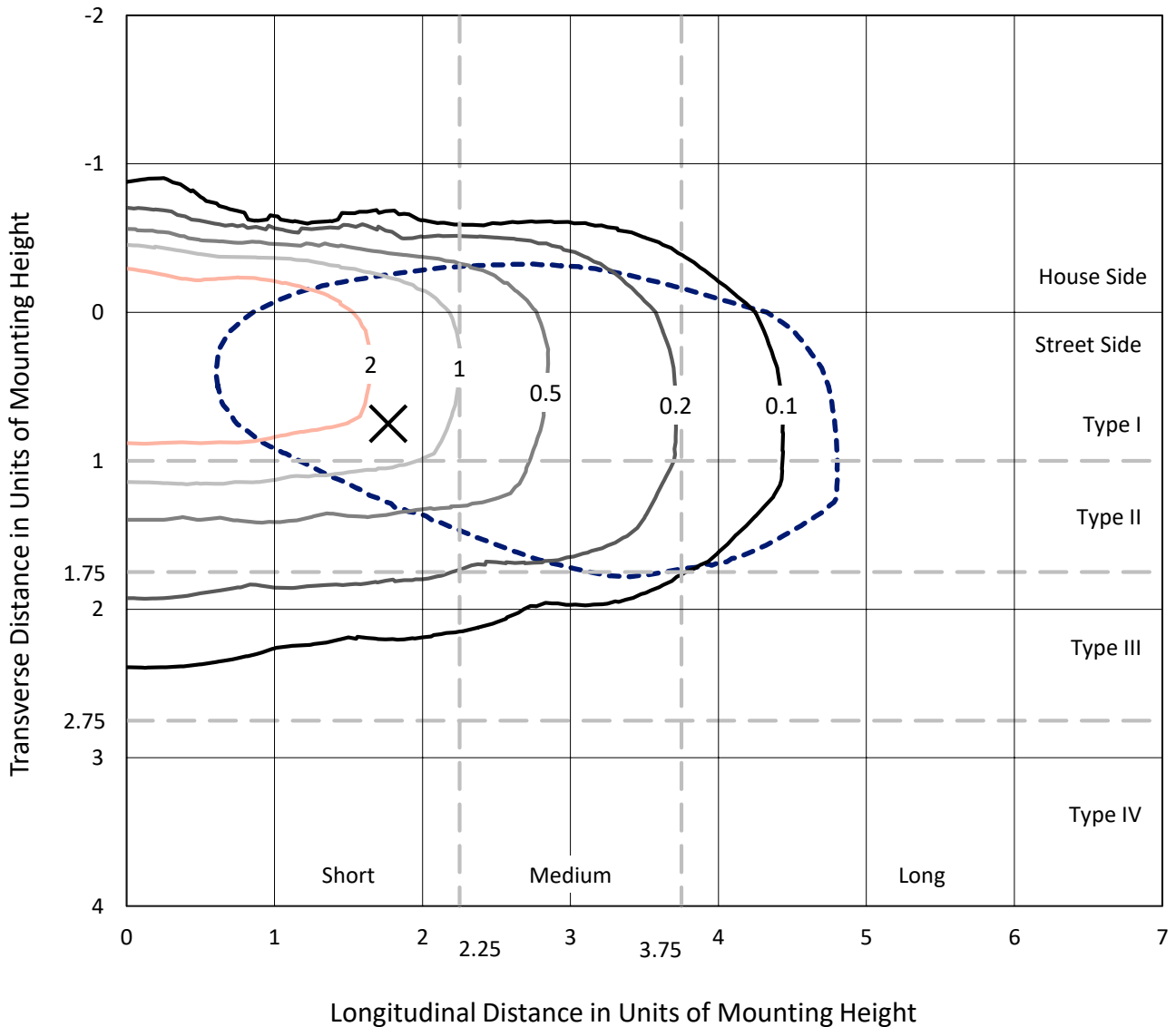
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

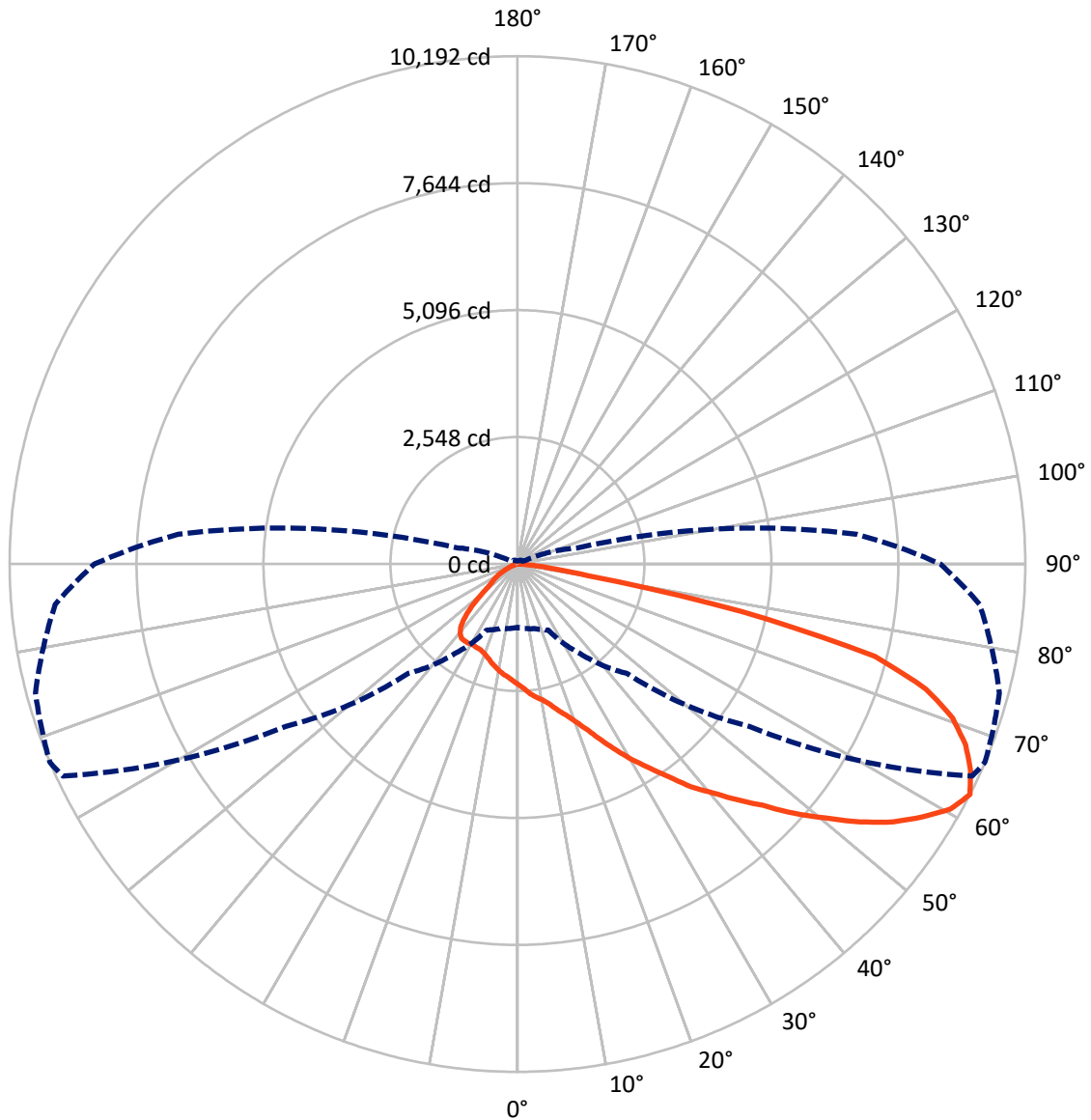
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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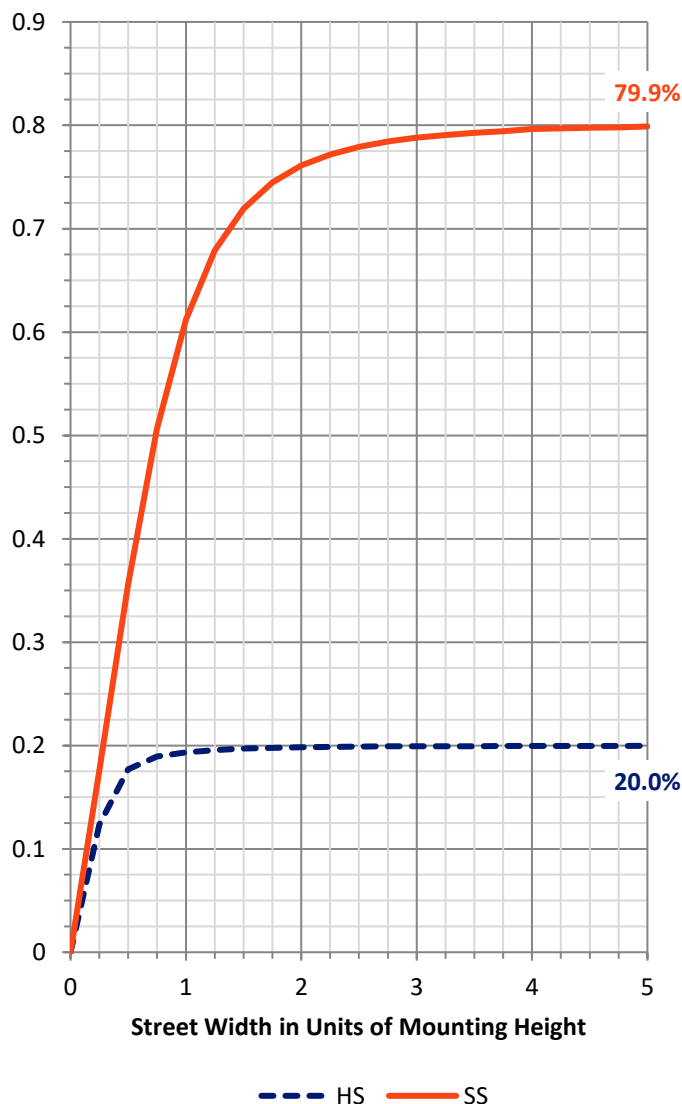
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2784.6	0.0	2784.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	10995.4	0.0	10995.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	13780.0	0.0	13780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	1.7
10°-20°	705.6	5.1
20°-30°	1203.6	8.7
30°-40°	1763.2	12.8
40°-50°	2326.9	16.9
50°-60°	2738.4	19.9
60°-70°	2816.5	20.4
70°-80°	1824.8	13.2
80°-90°	167.0	1.2
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°	13780.0	100.0
0°-180°	13780.0	100.0

Coefficient of Utilization



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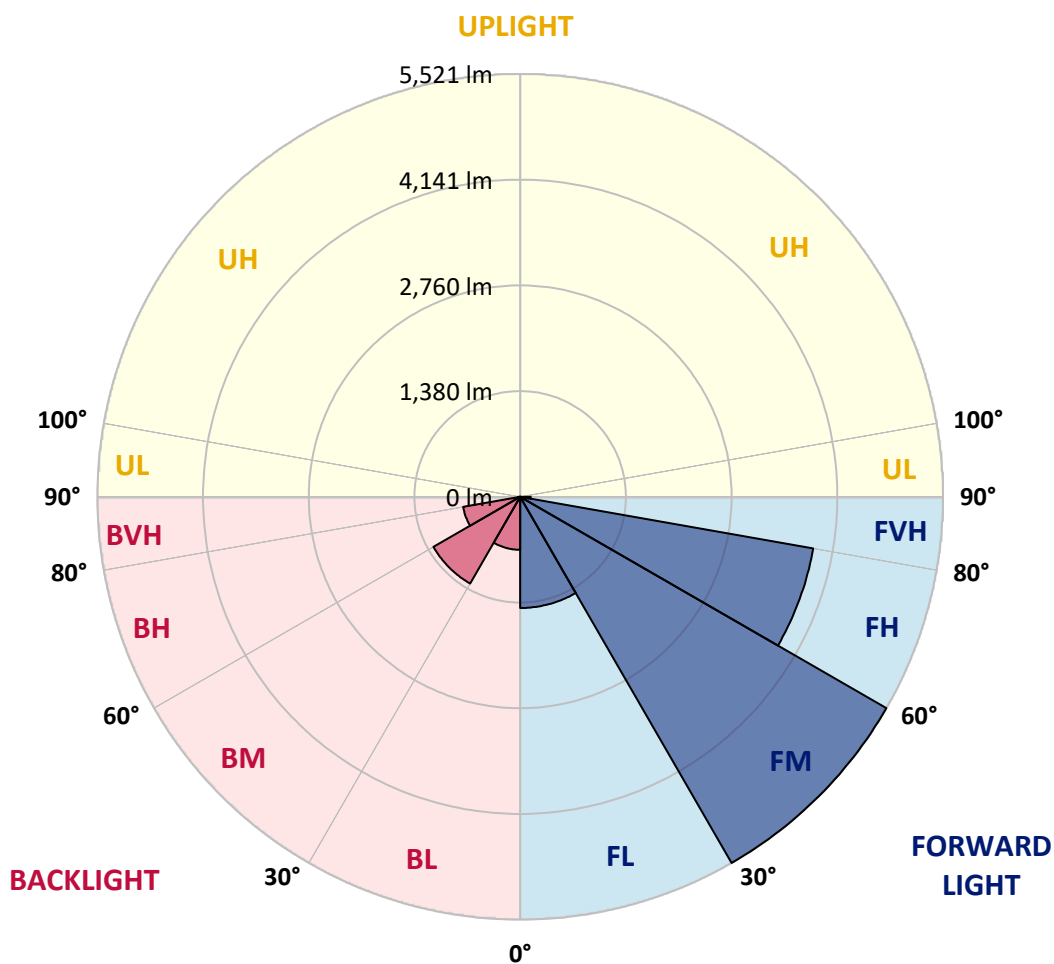
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.0	10.5			
FM (30°-60°)	5521.0	40.1			
FH (60°-80°)	3885.2	28.2			G2/5000
FVH (80°-90°)	138.1	1.0			G2/225
BL (0°-30°)	692.1	5.0	B2/1000		
BM (30°-60°)	1307.6	9.5	B2/2500		
BH (60°-80°)	756.0	5.5	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.2			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°	67°	75°	85°
0°	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2
2.5°	2685.3	2682.3	2653.5	2626.7	2608.9	2607.9	2561.2	2519.5	2500.7	2478.8	2430.2
5°	2824.3	2848.1	2816.3	2776.6	2744.9	2721.0	2680.3	2632.7	2612.8	2561.2	2487.8
7.5°	3025.8	3025.8	2996.0	2962.3	2925.5	2862.0	2792.5	2709.1	2699.2	2641.6	2545.3
10°	3123.1	3146.9	3108.2	3068.5	3027.8	2995.0	2900.7	2798.5	2773.7	2687.3	2568.2
12.5°	3259.1	3259.1	3238.3	3204.5	3157.8	3092.3	3031.8	2928.5	2886.8	2757.8	2608.9
15°	3387.2	3376.2	3358.4	3302.8	3279.0	3238.3	3158.8	3050.6	3042.7	2899.7	2671.4
17.5°	3487.4	3469.6	3452.7	3422.9	3394.1	3378.2	3321.6	3227.3	3194.6	3063.5	2789.5
20°	3539.0	3553.9	3513.2	3512.2	3521.2	3509.3	3471.5	3401.1	3387.2	3231.3	2909.7
22.5°	3597.6	3617.5	3607.5	3617.5	3644.3	3664.1	3662.1	3647.3	3625.4	3455.7	3103.2
25°	3610.5	3597.6	3639.3	3731.6	3799.1	3846.8	3940.1	3921.2	3915.3	3765.4	3366.3
27.5°	3570.8	3582.7	3648.2	3781.3	3955.0	4085.0	4161.5	4255.8	4234.9	4118.8	3683.0
30°	3547.0	3567.8	3654.2	3810.1	4043.3	4278.6	4429.5	4546.7	4564.5	4472.2	3994.7
32.5°	3464.6	3492.4	3581.7	3832.9	4129.7	4486.1	4673.7	4892.1	4884.2	4846.5	4373.9
35°	3337.5	3374.3	3511.3	3803.1	4227.0	4672.7	4921.9	5239.6	5245.5	5261.4	4734.3
37.5°	3235.3	3247.2	3403.0	3714.8	4265.7	4823.6	5153.2	5583.1	5679.4	5656.5	5143.3
40°	3071.5	3107.2	3276.0	3606.6	4261.7	4925.9	5388.5	5985.1	6036.7	6108.2	5571.1
42.5°	2870.0	2908.7	3070.5	3459.6	4206.2	5015.2	5614.8	6395.1	6467.6	6579.8	5963.3
45°	2676.4	2693.3	2845.1	3245.2	4097.9	5085.7	5835.2	6799.1	6910.3	7071.1	6358.4
47.5°	2435.1	2480.8	2650.6	3020.8	3858.7	5111.5	5998.0	7275.6	7480.1	7578.4	6809.1
50°	1873.3	1902.1	2378.6	2823.3	3598.6	5031.1	6209.5	7880.2	8009.3	8111.5	7265.7
52.5°	1650.9	1676.7	1861.4	2595.0	3308.7	4822.6	6338.5	8442.1	8598.0	8576.1	7724.4
55°	1557.6	1570.5	1649.9	2117.5	3044.7	4435.5	6428.9	9055.6	9140.0	8999.0	8179.0
57.5°	1449.4	1464.3	1523.8	1775.0	2746.9	3945.1	6353.4	9547.0	9578.8	9404.0	8584.1
60°	1353.1	1363.0	1452.3	1588.4	2423.2	3469.6	6162.8	9900.4	9988.8	9701.9	9020.8
62.5°	1270.7	1294.5	1341.2	1461.3	2196.9	3101.3	5680.3	10067.2	10192.3	10013.6	9310.7
65°	1189.3	1200.2	1253.8	1360.0	1953.7	2883.9	5404.4	9847.8	9993.7	10055.3	9489.4
67.5°	1078.1	1094.0	1146.6	1223.0	1630.0	2672.4	4760.1	9491.4	9699.9	9835.9	9383.2
70°	948.0	961.9	1015.6	1079.1	1361.0	2360.7	4017.5	9128.1	9265.1	9274.0	8908.7
72.5°	797.2	810.1	863.7	927.2	1129.7	1965.6	3148.9	8267.4	8574.1	8768.7	8112.5
75°	507.3	562.9	695.9	767.4	930.2	1590.3	2246.5	6600.6	7406.7	7962.6	7020.5
77.5°	82.4	92.3	273.0	389.1	541.0	1078.1	1247.8	3657.2	4600.3	6654.2	5668.4
80°	62.5	70.5	99.3	264.1	347.5	671.1	491.4	1187.3	1431.5	3111.2	3175.7
82.5°	26.8	31.8	59.6	147.9	163.8	178.7	132.0	531.1	628.4	946.1	1101.9
85°	8.9	11.9	27.8	46.7	51.6	39.7	28.8	210.5	259.1	453.7	419.9
87.5°	0.0	1.0	6.0	6.9	6.0	4.0	3.0	2.0	2.0	3.0	3.0
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°	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2	2421.2
2.5°	2420.3	2386.5	2382.5	2341.8	2305.1	2263.4	2237.6	2228.7	2240.6	2252.5	2264.4
5°	2450.0	2398.4	2346.8	2262.4	2224.7	2179.0	2118.5	2081.7	2064.9	2079.7	2084.7
7.5°	2471.9	2405.4	2325.9	2210.8	2129.4	2042.0	1984.4	1922.9	1889.1	1895.1	1900.1
10°	2475.8	2402.4	2267.4	2156.2	2025.1	1905.0	1829.6	1800.8	1778.0	1758.1	1761.1
12.5°	2512.6	2404.4	2217.7	2082.7	1944.7	1789.9	1705.5	1668.8	1664.8	1624.1	1620.1
15°	2562.2	2448.0	2191.9	2016.2	1839.5	1693.6	1593.3	1527.8	1529.8	1508.9	1506.0
17.5°	2642.6	2490.7	2173.1	1938.8	1729.3	1595.3	1468.2	1408.7	1389.8	1383.9	1378.9
20°	2733.0	2553.3	2150.2	1870.3	1633.0	1477.2	1335.2	1274.7	1222.0	1206.2	1208.1
22.5°	2866.0	2635.7	2169.1	1818.7	1525.8	1362.0	1221.0	1102.9	1012.6	988.7	985.8
25°	3101.3	2798.5	2225.7	1774.0	1459.3	1249.8	1060.2	894.4	775.3	749.5	751.5
27.5°	3363.3	3012.9	2304.1	1755.1	1374.9	1125.7	864.7	680.0	568.8	539.0	541.0
30°	3674.1	3268.0	2423.2	1702.5	1284.6	945.1	644.3	498.3	412.0	377.2	379.2
32.5°	3972.9	3523.2	2576.1	1694.6	1171.4	709.8	465.6	362.3	291.9	266.0	269.0
35°	4302.4	3815.0	2736.9	1654.9	985.8	509.3	326.6	251.2	213.4	205.5	204.5
37.5°	4675.7	4075.1	2856.1	1618.1	737.6	358.4	223.4	193.6	188.6	177.7	177.7
40°	5022.2	4346.1	2945.4	1520.8	516.2	243.2	174.7	175.7	170.7	155.9	152.9
42.5°	5341.8	4626.1	3027.8	1365.0	349.4	165.8	156.8	159.8	161.8	144.9	141.0
45°	5704.2	4971.5	3009.9	1130.7	222.4	149.9	141.0	149.9	159.8	143.0	139.0
47.5°	6101.3	5224.7	3047.7	816.0	156.8	142.0	131.0	143.0	150.9	140.0	134.0
50°	6550.0	5556.3	2933.5	474.5	143.9	134.0	126.1	131.0	143.0	137.0	130.0
52.5°	6961.0	5852.1	2777.6	232.3	136.0	126.1	118.1	122.1	134.0	127.1	129.1
55°	7307.4	6159.8	2461.0	165.8	131.0	117.1	114.2	115.2	122.1	113.2	119.1
57.5°	7732.3	6413.0	2139.3	154.9	127.1	111.2	112.2	104.2	106.2	101.3	95.3
60°	8110.5	6652.2	1702.5	143.0	121.1	114.2	101.3	90.3	84.4	81.4	80.4
62.5°	8488.8	6833.9	1254.8	130.0	115.2	103.2	89.3	77.4	67.5	63.5	62.5
65°	8631.7	6931.2	856.7	119.1	108.2	94.3	79.4	62.5	51.6	47.7	44.7
67.5°	8525.5	6626.4	496.4	107.2	104.2	86.4	69.5	50.6	39.7	36.7	34.7
70°	8033.1	6147.9	265.1	97.3	91.3	76.4	61.5	41.7	31.8	27.8	26.8
72.5°	7186.3	5287.2	139.0	81.4	76.4	62.5	48.6	34.7	25.8	20.8	19.9
75°	6102.3	4150.6	97.3	59.6	52.6	48.6	36.7	27.8	20.8	15.9	14.9
77.5°	4816.7	2697.2	73.5	38.7	30.8	31.8	26.8	22.8	16.9	11.9	11.9
80°	2487.8	1401.7	55.6	25.8	17.9	18.9	18.9	16.9	12.9	8.9	8.9
82.5°	986.8	516.2	38.7	14.9	10.9	11.9	10.9	10.9	8.9	6.0	6.0
85°	325.6	113.2	13.9	8.9	6.9	6.9	6.0	5.0	3.0	2.0	2.0
87.5°	3.0	3.0	4.0	5.0	5.0	4.0	3.0	1.0	0.0	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)