

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: P509230

Luminaire Tested: **VERD-CA2-130-750-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-750-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1180mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17405 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

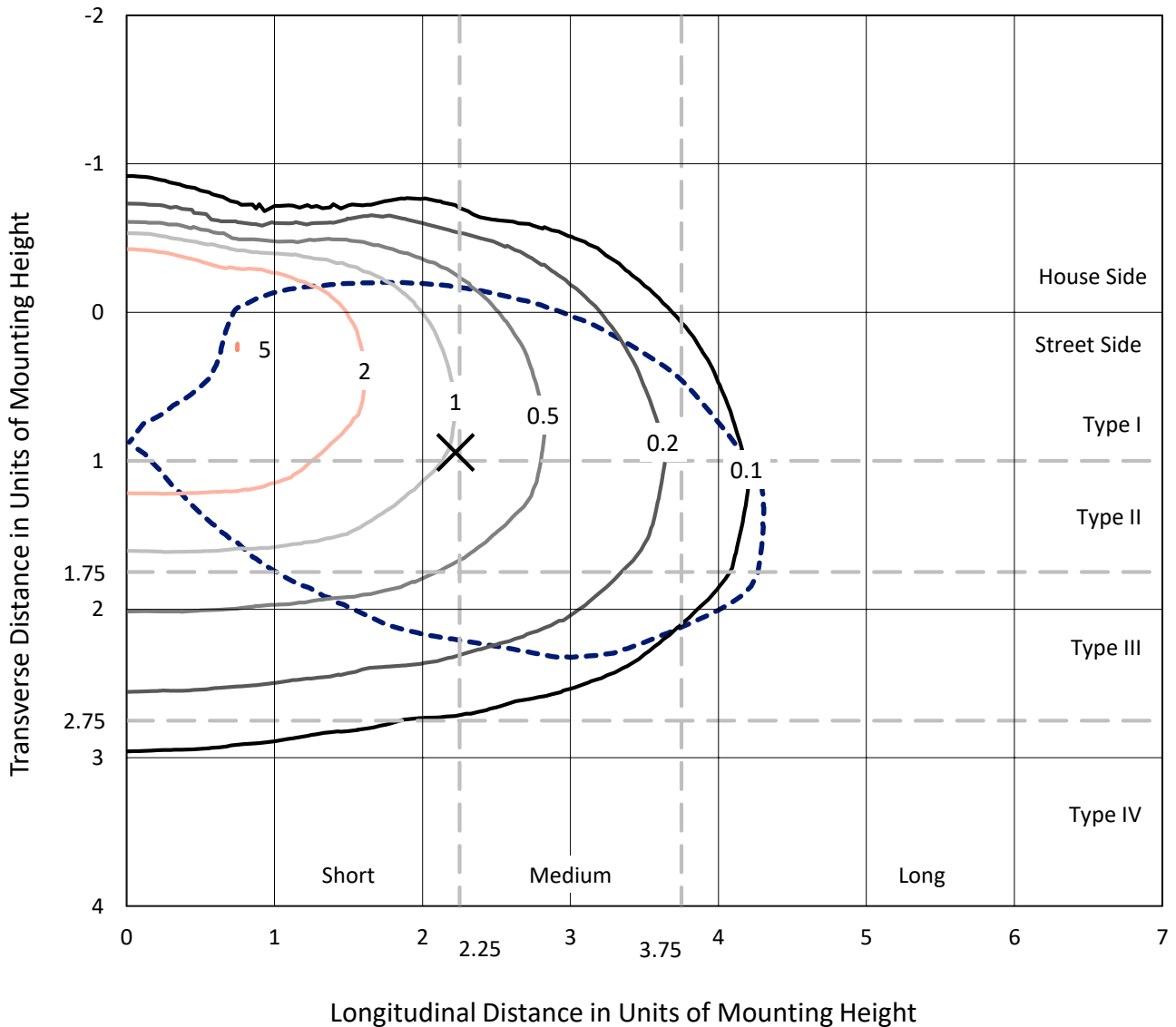
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

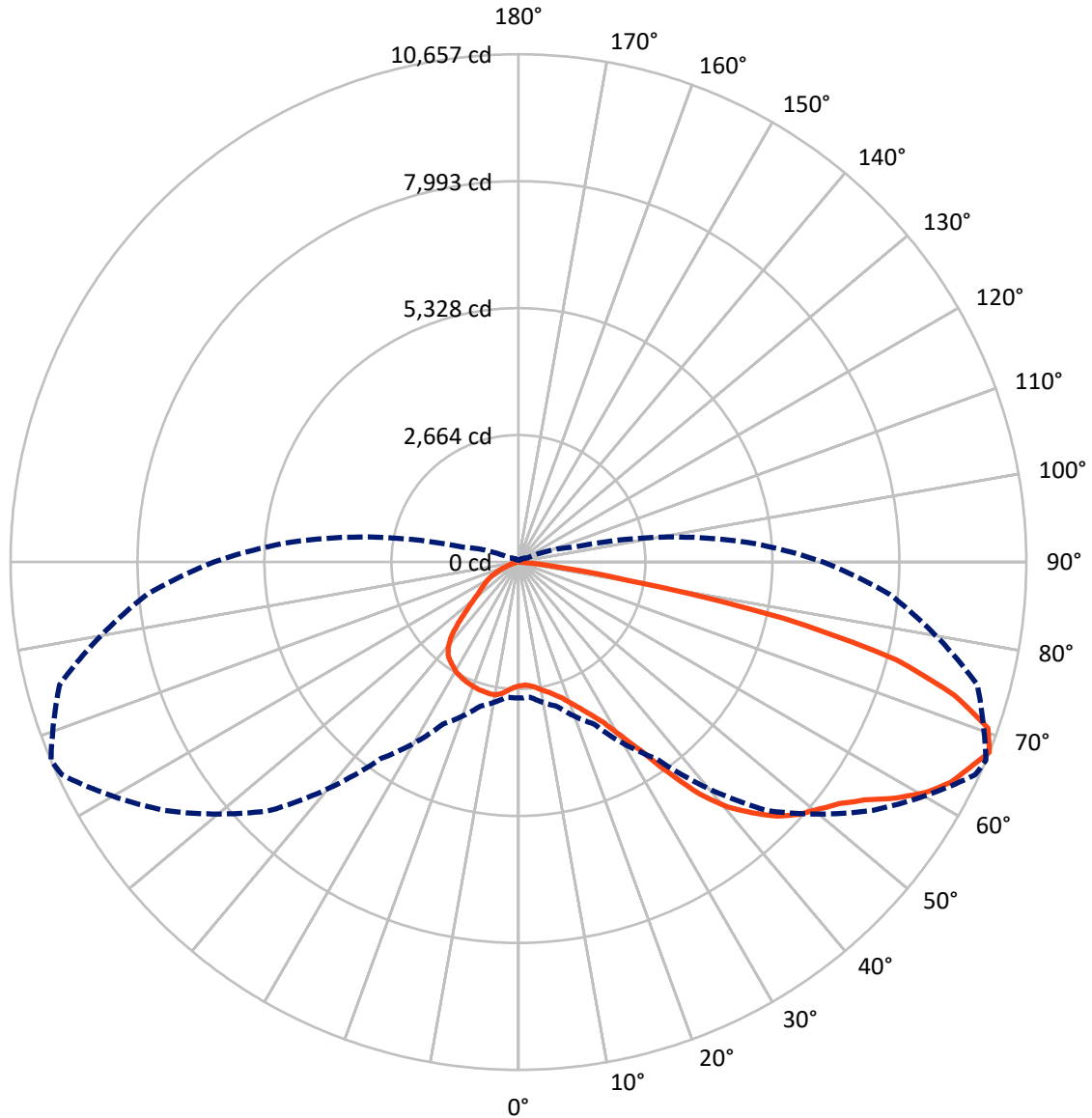
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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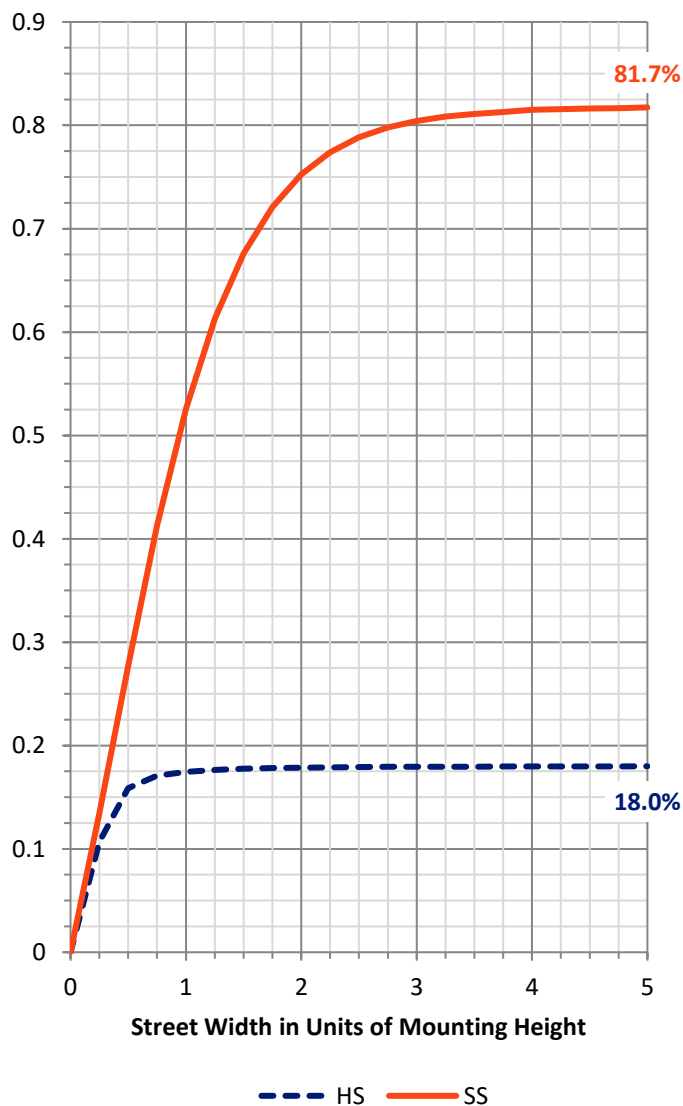
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3171.3	0.0	3171.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	14233.7	0.0	14233.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	17405.0	0.0	17405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	1.5
10°-20°	815.4	4.7
20°-30°	1391.4	8.0
30°-40°	2165.8	12.4
40°-50°	3057.4	17.6
50°-60°	3682.3	21.2
60°-70°	3805.4	21.9
70°-80°	2096.3	12.0
80°-90°	130.7	0.8
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°	17405.0	100.0
0°-180°	17405.0	100.0

Coefficient of Utilization



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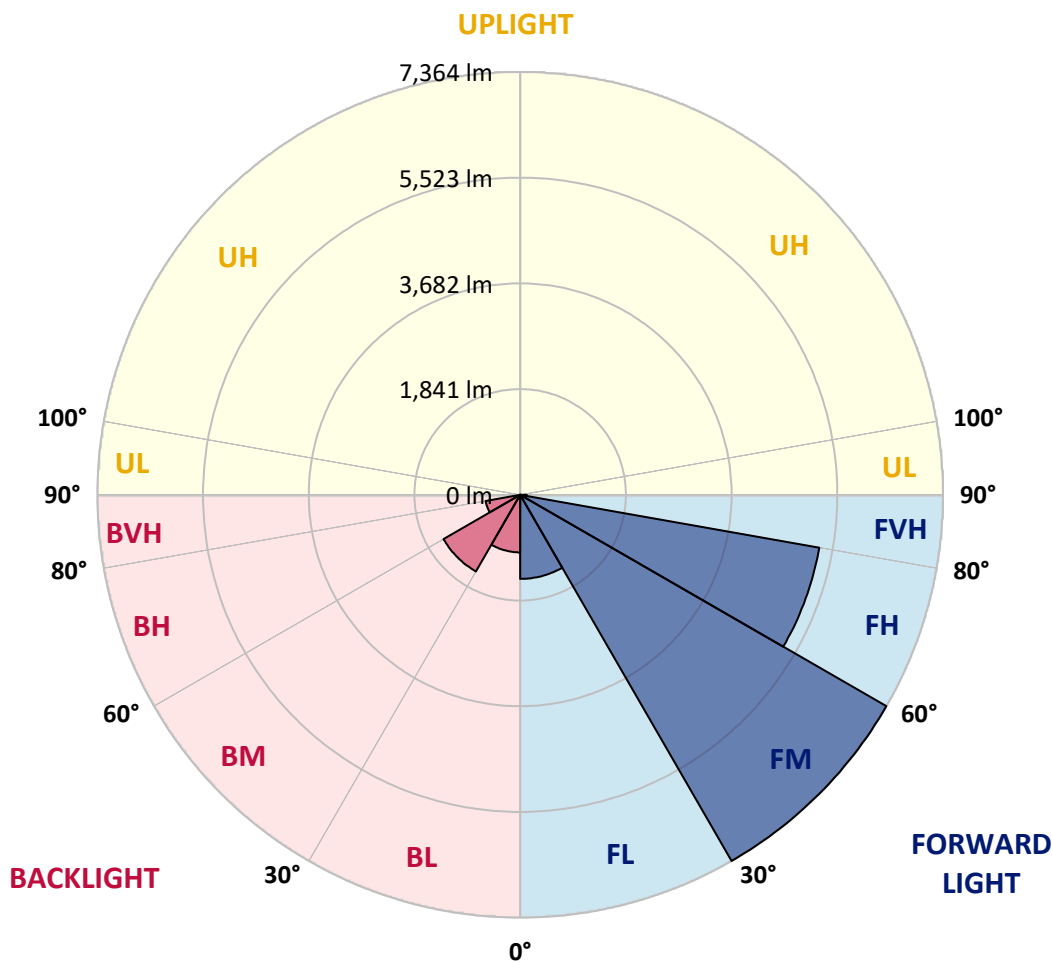
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.5	8.4			
FM (30°-60°)	7363.8	42.3			
FH (60°-80°)	5290.5	30.4			G3/7500
FVH (80°-90°)	114.9	0.7			G2/225
BL (0°-30°)	1002.7	5.8	B3/2500		
BM (30°-60°)	1541.6	8.9	B2/2500		
BH (60°-80°)	611.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8
2.5°	2574.6	2600.8	2600.8	2592.7	2596.7	2578.6	2566.5	2580.6	2584.7	2596.7	2612.9
5°	2625.0	2655.2	2653.2	2639.1	2627.0	2610.9	2594.7	2606.8	2608.8	2612.9	2633.0
7.5°	2731.7	2759.9	2747.8	2733.7	2727.7	2691.4	2657.2	2655.2	2659.2	2671.3	2693.4
10°	2870.7	2892.9	2888.9	2866.7	2850.6	2796.2	2747.8	2729.7	2731.7	2735.8	2774.0
12.5°	3027.9	3058.1	3035.9	3005.7	2977.5	2898.9	2832.5	2806.3	2802.2	2812.3	2844.5
15°	3183.0	3215.2	3199.1	3181.0	3116.5	3029.9	2945.3	2903.0	2898.9	2898.9	2919.1
17.5°	3386.5	3398.5	3388.5	3362.3	3289.8	3181.0	3080.2	3017.8	3007.7	3013.8	3017.8
20°	3612.1	3634.2	3622.2	3593.9	3489.2	3372.3	3245.4	3170.9	3164.9	3170.9	3132.6
22.5°	3886.1	3894.1	3888.1	3841.7	3747.1	3591.9	3424.7	3340.1	3340.1	3346.2	3267.6
25°	4119.7	4168.1	4154.0	4097.6	3986.8	3851.8	3650.4	3545.6	3551.6	3555.7	3446.9
27.5°	4391.7	4432.0	4421.9	4379.6	4307.1	4135.9	3894.1	3825.6	3819.6	3813.5	3644.3
30°	4651.6	4681.8	4702.0	4691.9	4633.5	4472.3	4256.7	4206.4	4222.5	4210.4	3918.3
32.5°	4863.1	4915.5	4971.9	4984.0	4967.9	4824.8	4667.7	4693.9	4714.0	4857.1	4681.8
35°	5044.4	5100.8	5193.5	5290.2	5308.3	5251.9	5173.4	5364.7	5423.2	5715.3	5529.9
37.5°	5233.8	5282.1	5374.8	5527.9	5628.6	5658.9	5735.4	6037.6	6178.6	6430.4	6085.9
40°	5320.4	5368.8	5529.9	5723.3	5932.8	6102.1	6255.2	6605.7	6762.8	6839.4	6392.2
42.5°	5233.8	5280.1	5540.0	5904.6	6188.7	6563.4	6736.6	7087.2	7191.9	7183.9	6768.9
45°	5149.2	5193.5	5465.5	5951.0	6420.4	6988.5	7135.5	7528.4	7604.9	7508.2	6986.4
47.5°	5040.4	5100.8	5382.9	5922.8	6627.9	7373.2	7508.2	7842.6	7911.1	7768.1	7236.2
50°	4907.4	4959.8	5288.2	5878.4	6764.8	7661.3	7804.4	8136.8	8154.9	8021.9	7461.9
52.5°	4754.3	4782.5	5139.1	5789.8	6883.7	7872.8	8036.0	8384.5	8426.8	8390.6	7729.8
55°	4526.7	4577.0	4959.8	5650.8	6891.8	7983.6	8215.3	8735.1	8811.6	8727.0	7893.0
57.5°	4287.0	4341.3	4738.2	5457.4	6772.9	8054.2	8541.7	9190.4	9341.4	9069.5	8026.0
60°	4023.0	4071.4	4462.2	5171.3	6561.4	8154.9	8878.1	9724.2	9818.9	9361.6	8114.6
62.5°	3716.8	3755.1	4127.8	4824.8	6237.0	8128.7	9168.2	10153.3	10183.5	9623.5	8106.5
65°	3344.1	3342.1	3688.6	4341.3	5705.2	7919.2	9220.6	10368.9	10405.1	9792.7	8034.0
67.5°	2852.6	2846.6	3136.6	3751.1	5034.4	7373.2	9081.6	10570.3	10656.9	9970.0	7822.5
70°	2236.1	2244.2	2463.8	3011.7	4085.5	6541.2	8714.9	10435.3	10453.5	9629.5	7274.5
72.5°	1581.4	1577.4	1726.5	2097.1	3019.8	5106.9	7659.3	9514.7	9571.1	8787.4	6337.8
75°	725.2	755.5	1128.1	1281.3	1823.2	3477.1	6301.5	8084.4	8193.2	7564.6	4941.7
77.5°	135.0	139.0	241.7	487.5	713.1	1255.1	3765.2	5475.5	5703.2	5155.2	2784.1
80°	106.8	108.8	143.0	233.7	298.2	564.1	1238.9	2256.3	2306.7	2010.5	1003.2
82.5°	78.6	80.6	106.8	151.1	139.0	243.8	515.7	656.7	697.0	648.7	398.9
85°	46.3	48.3	62.5	74.5	72.5	96.7	86.6	78.6	70.5	58.4	50.4
87.5°	12.1	16.1	26.2	26.2	20.1	18.1	16.1	14.1	16.1	14.1	14.1
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°	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8	2598.8
2.5°	2616.9	2614.9	2620.9	2637.0	2651.1	2653.2	2673.3	2699.5	2687.4	2721.7	2709.6
5°	2645.1	2651.1	2673.3	2699.5	2723.7	2743.8	2774.0	2818.3	2804.2	2836.5	2824.4
7.5°	2709.6	2719.6	2753.9	2780.1	2808.3	2802.2	2828.4	2854.6	2822.4	2856.6	2840.5
10°	2786.1	2798.2	2818.3	2828.4	2820.4	2816.3	2810.3	2806.3	2764.0	2788.1	2778.1
12.5°	2854.6	2856.6	2850.6	2824.4	2806.3	2757.9	2735.8	2725.7	2661.2	2679.3	2667.3
15°	2921.1	2892.9	2862.7	2802.2	2751.9	2677.3	2629.0	2586.7	2526.2	2550.4	2526.2
17.5°	2993.6	2951.3	2872.7	2784.1	2681.4	2572.6	2494.0	2425.5	2334.9	2330.8	2322.8
20°	3086.3	3023.8	2896.9	2751.9	2604.8	2441.6	2316.7	2201.9	2064.9	2046.8	2010.5
22.5°	3203.1	3110.5	2933.2	2709.6	2510.1	2304.6	2093.1	1903.7	1730.5	1676.1	1656.0
25°	3338.1	3223.3	2953.3	2671.3	2419.5	2105.2	1817.1	1571.3	1367.9	1309.5	1293.3
27.5°	3507.3	3366.3	2983.5	2614.9	2274.4	1861.4	1486.7	1214.8	1033.5	938.8	924.7
30°	3741.0	3525.5	3025.8	2558.5	2099.2	1575.4	1152.3	836.0	664.8	608.4	598.3
32.5°	4377.6	3904.2	3072.2	2457.7	1867.5	1257.1	765.5	533.9	419.0	372.7	368.7
35°	5185.4	4597.2	3241.4	2342.9	1587.5	872.3	475.4	318.3	255.8	237.7	237.7
37.5°	5707.2	5135.1	3523.4	2181.8	1218.8	533.9	286.1	207.5	195.4	193.4	193.4
40°	5981.2	5372.8	3726.9	1960.2	815.9	310.2	201.5	179.3	175.3	171.2	171.2
42.5°	6329.7	5576.3	3902.2	1660.0	473.4	217.6	177.3	163.2	157.1	153.1	153.1
45°	6523.1	5797.9	3791.4	1303.4	269.9	195.4	163.2	147.1	141.0	141.0	141.0
47.5°	6712.5	6009.4	3650.4	936.8	229.7	179.3	153.1	137.0	130.9	135.0	135.0
50°	6928.0	6152.4	3426.7	701.1	217.6	167.2	139.0	124.9	120.9	126.9	126.9
52.5°	7129.5	6166.5	3068.2	560.0	201.5	155.1	128.9	114.8	110.8	114.8	114.8
55°	7187.9	6122.2	2965.4	445.2	191.4	143.0	120.9	106.8	96.7	96.7	94.7
57.5°	7173.8	6035.6	2715.6	376.7	179.3	130.9	110.8	94.7	82.6	78.6	78.6
60°	7125.4	5914.7	2451.7	328.4	167.2	120.9	98.7	80.6	68.5	64.5	64.5
62.5°	7065.0	5687.1	2079.0	286.1	155.1	116.8	82.6	66.5	58.4	54.4	54.4
65°	6811.2	5332.5	1664.0	243.8	143.0	102.7	72.5	58.4	50.4	46.3	46.3
67.5°	6390.1	4792.6	1202.7	207.5	133.0	86.6	64.5	50.4	42.3	40.3	38.3
70°	5761.6	4047.2	745.4	179.3	114.8	78.6	56.4	44.3	38.3	32.2	32.2
72.5°	4802.7	3168.9	390.8	141.0	90.7	66.5	50.4	40.3	32.2	28.2	26.2
75°	3376.4	1954.1	282.0	108.8	62.5	54.4	42.3	34.2	28.2	24.2	22.2
77.5°	1629.8	672.9	197.4	80.6	44.3	40.3	32.2	28.2	22.2	20.1	20.1
80°	596.3	382.8	141.0	58.4	36.3	32.2	24.2	22.2	18.1	16.1	16.1
82.5°	267.9	181.3	80.6	38.3	26.2	24.2	18.1	14.1	14.1	14.1	14.1
85°	44.3	38.3	26.2	18.1	14.1	12.1	12.1	10.1	10.1	10.1	10.1
87.5°	12.1	12.1	10.1	10.1	8.1	6.0	4.0	4.0	4.0	6.0	6.0
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)