

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: P553530

Luminaire Tested: **VERD-G-CA2-140-750-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-750-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1290mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19318 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

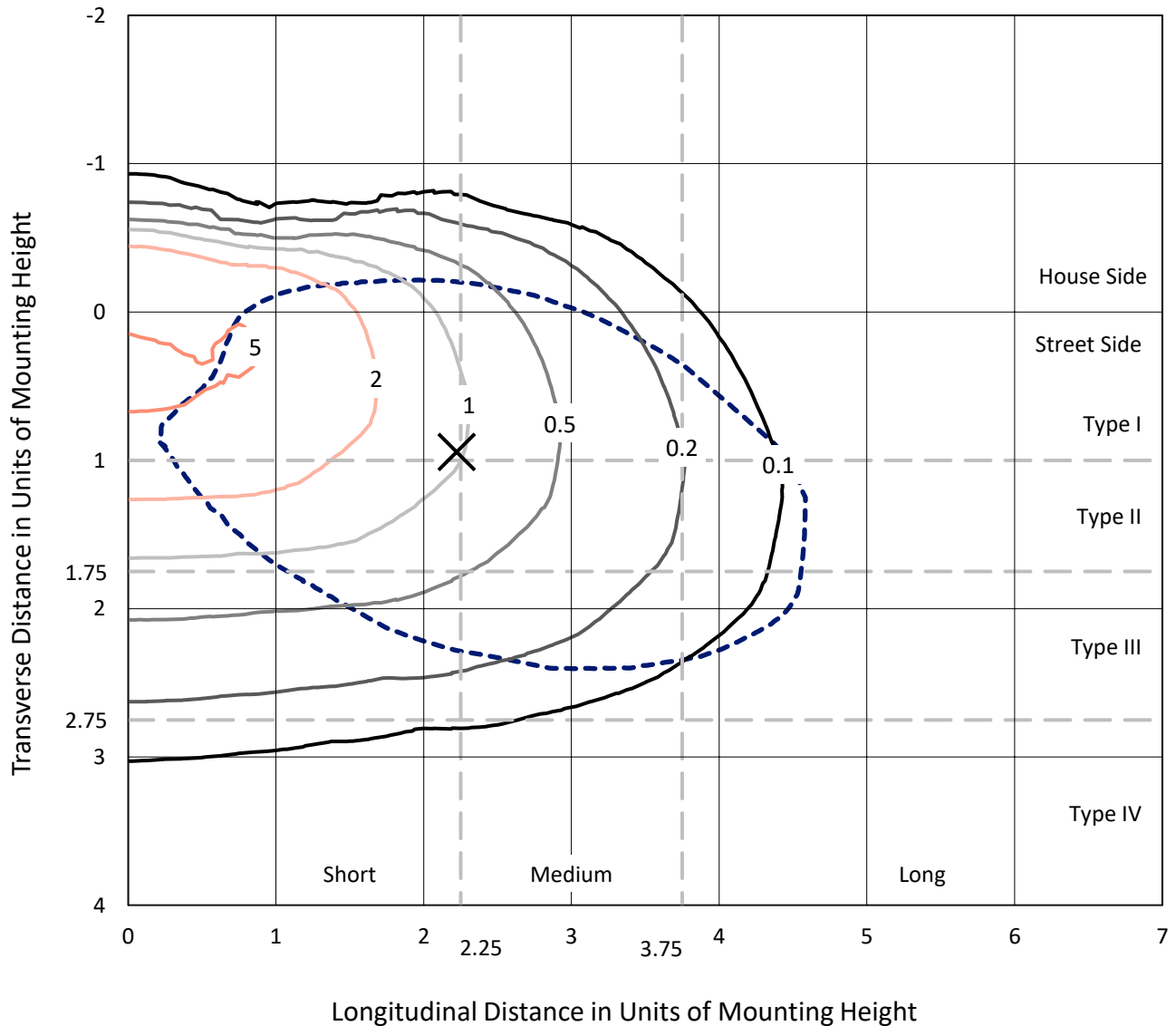
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

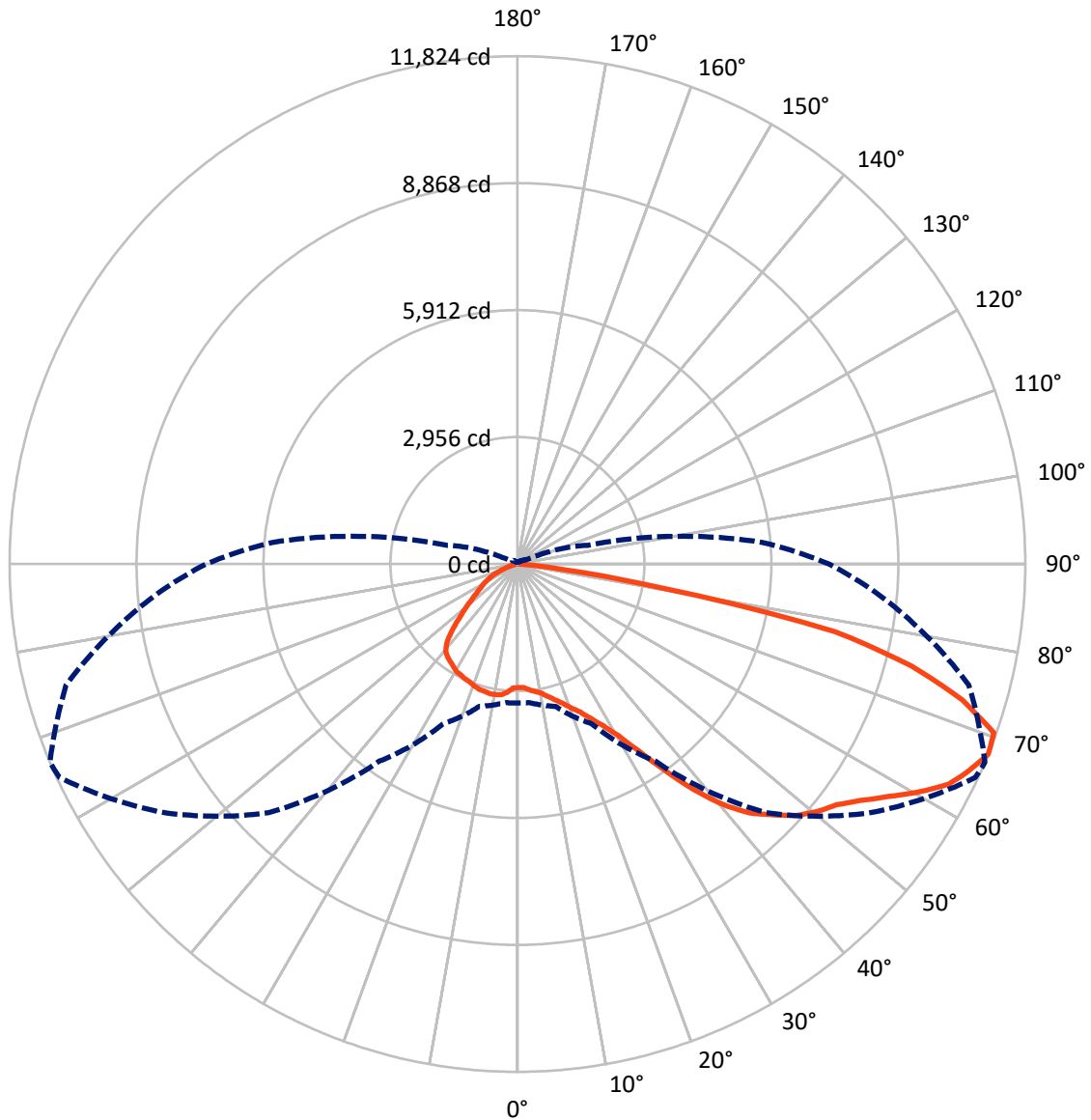
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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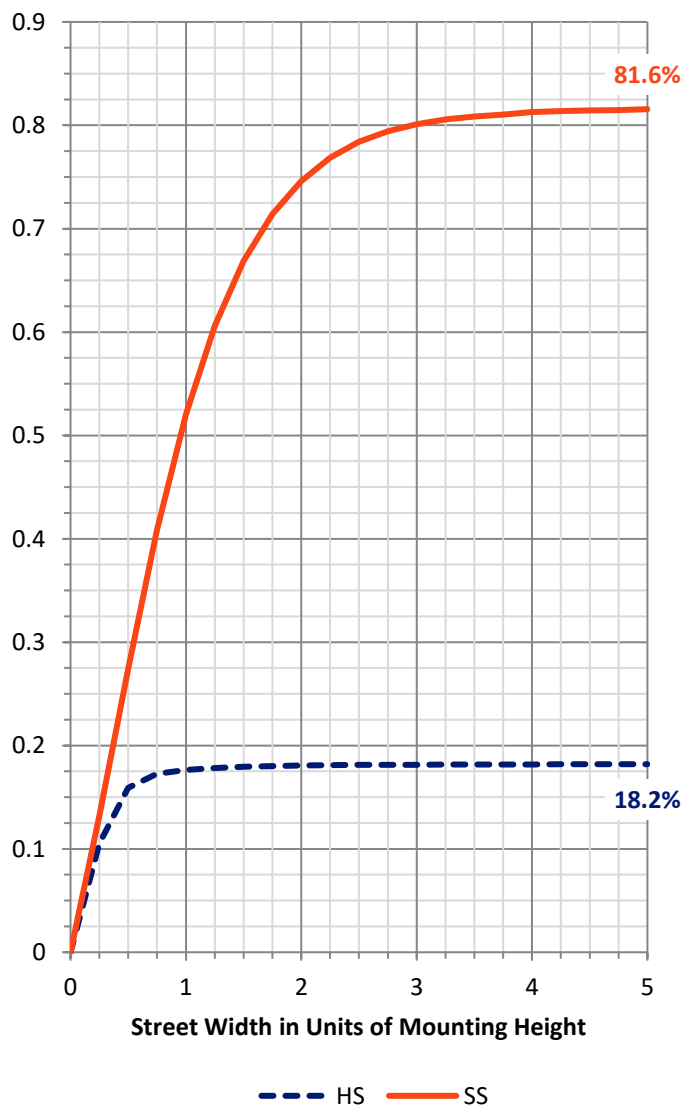
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3555.7	0.0	3555.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15762.3	0.0	15762.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	19318.0	0.0	19318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.5
10°-20°	904.2	4.7
20°-30°	1541.6	8.0
30°-40°	2351.3	12.2
40°-50°	3314.7	17.2
50°-60°	4006.6	20.7
60°-70°	4219.7	21.8
70°-80°	2510.1	13.0
80°-90°	180.4	0.9
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°	19318.0	100.0
0°-180°	19318.0	100.0

Coefficient of Utilization



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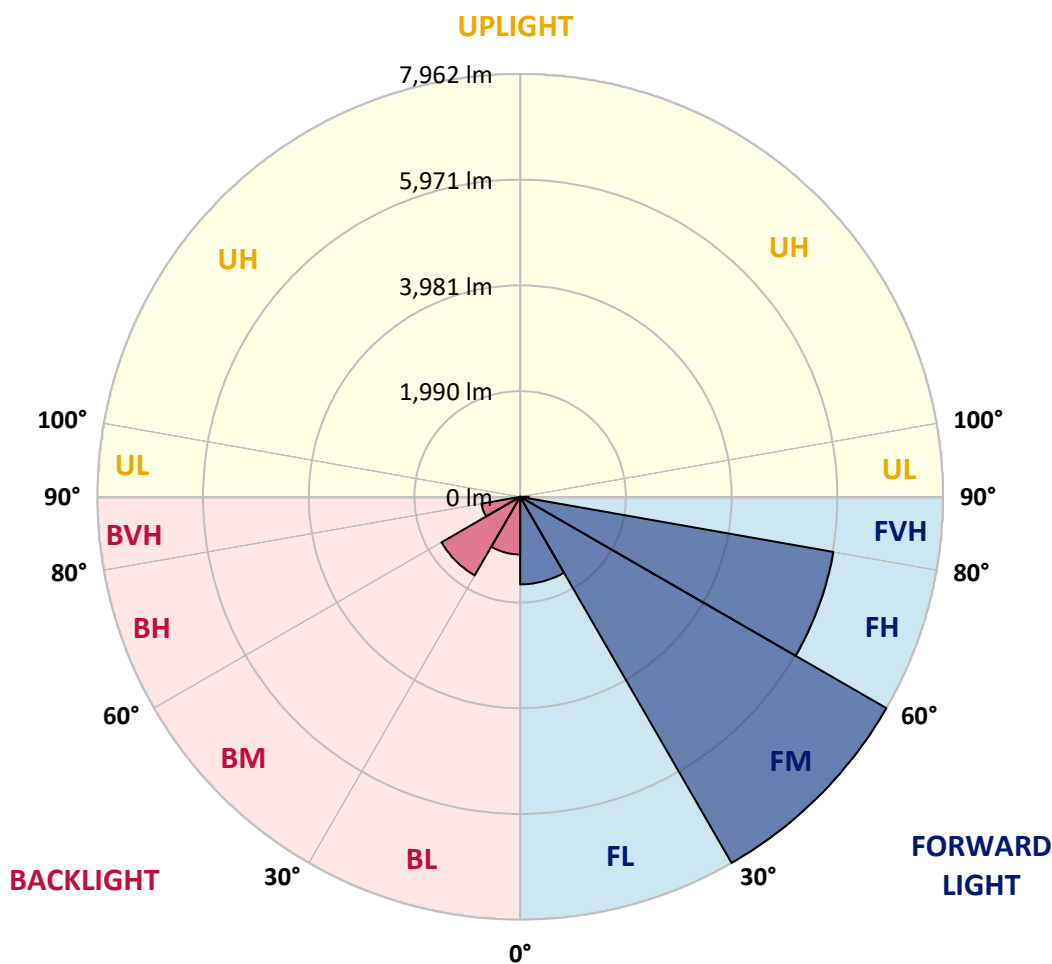
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1649.2	8.5			
FM	(30°-60°)	7962.0	41.2			
FH	(60°-80°)	5989.6	31.0			G3/7500
FVH	(80°-90°)	161.5	0.8			G2/225
BL	(0°-30°)	1085.9	5.6	B3/2500		
BM	(30°-60°)	1710.6	8.9	B2/2500		
BH	(60°-80°)	740.2	3.8	B2/1000		G2/1000
BVH	(80°-90°)	19.0	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°	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8
2.5°	2936.6	2947.7	2925.6	2920.1	2891.0	2895.2	2889.7	2875.8	2881.4	2870.3	2877.2
5°	3050.0	3020.9	3012.7	2996.1	2969.8	2954.6	2932.5	2925.6	2940.8	2928.4	2931.1
7.5°	3170.2	3175.7	3138.4	3106.6	3059.6	3048.6	3009.9	2986.4	3001.6	2985.0	2994.7
10°	3320.8	3329.1	3289.0	3246.2	3206.1	3148.1	3099.7	3062.4	3058.3	3050.0	3063.8
12.5°	3518.4	3517.1	3472.8	3420.3	3341.6	3301.5	3208.9	3156.4	3163.3	3132.9	3130.1
15°	3747.9	3728.5	3677.4	3623.5	3525.4	3446.6	3334.6	3269.7	3280.8	3246.2	3237.9
17.5°	3971.7	3952.4	3912.3	3852.9	3763.1	3641.4	3504.6	3410.7	3407.9	3391.3	3341.6
20°	4201.1	4209.4	4155.5	4101.6	4011.8	3848.7	3694.0	3572.3	3575.1	3546.1	3449.3
22.5°	4469.2	4454.0	4389.1	4364.2	4261.9	4083.7	3910.9	3771.3	3743.7	3738.2	3571.0
25°	4724.9	4715.2	4655.8	4626.8	4541.1	4378.0	4154.1	3986.9	3982.8	3964.8	3728.5
27.5°	4928.0	4939.1	4933.6	4912.8	4818.9	4658.6	4462.3	4261.9	4264.7	4238.4	3933.0
30°	5216.9	5183.7	5171.3	5187.8	5179.6	5006.8	4798.1	4653.0	4643.4	4575.6	4191.5
32.5°	5385.5	5402.0	5418.6	5476.7	5478.1	5349.5	5214.1	5145.0	5183.7	5194.8	4834.1
35°	5540.2	5540.2	5635.6	5782.1	5833.2	5789.0	5731.0	5818.0	5894.0	6047.4	5624.5
37.5°	5678.4	5718.5	5808.3	5992.1	6159.4	6202.2	6329.3	6568.4	6661.0	6800.6	6290.6
40°	5794.5	5823.5	5938.2	6163.5	6450.9	6647.2	6884.9	7264.9	7361.7	7335.4	6661.0
42.5°	5666.0	5713.0	5896.8	6359.7	6721.8	7090.8	7401.7	7812.2	7929.6	7686.4	7050.7
45°	5596.9	5614.9	5807.0	6332.1	6920.8	7539.9	7892.3	8331.8	8331.8	8059.5	7325.7
47.5°	5458.7	5490.5	5718.5	6296.2	7132.2	7914.4	8271.0	8718.7	8747.7	8411.9	7599.3
50°	5319.1	5359.2	5617.6	6232.6	7251.1	8290.3	8593.0	9042.1	9053.2	8653.8	7841.2
52.5°	5180.9	5201.7	5490.5	6191.1	7382.4	8483.8	8870.7	9304.7	9310.2	9015.8	8107.9
55°	4933.6	4984.7	5283.2	6039.1	7375.5	8572.2	9015.8	9655.7	9709.6	9409.7	8370.5
57.5°	4701.4	4716.6	5042.7	5819.4	7263.5	8674.5	9328.2	10158.7	10211.2	9767.6	8565.3
60°	4391.8	4408.4	4759.4	5558.2	7097.7	8776.8	9724.8	10746.1	10769.5	10143.5	8711.8
62.5°	4068.5	4125.1	4414.0	5157.4	6753.6	8794.7	10060.6	11287.8	11278.1	10469.7	8808.6
65°	3688.4	3709.2	3986.9	4689.0	6227.1	8657.9	10198.8	11550.3	11573.8	10699.1	8745.0
67.5°	3232.4	3240.7	3431.4	4105.8	5603.8	8186.7	10084.1	11764.5	11824.0	10878.7	8479.7
70°	2553.8	2566.3	2741.8	3383.0	4719.4	7465.3	9890.6	11789.4	11764.5	10717.0	8076.1
72.5°	1780.0	1762.0	1933.3	2372.8	3573.7	6140.0	8956.4	10786.1	10830.4	9915.5	7231.7
75°	852.7	858.2	1198.2	1459.3	2006.6	4386.3	7454.2	9288.1	9473.3	8641.3	5891.3
77.5°	145.1	147.9	316.5	574.9	808.4	1840.8	4943.2	7397.6	7555.1	6782.6	3988.3
80°	116.1	116.1	154.8	309.6	428.4	762.8	1872.5	3279.4	3450.7	3072.1	1470.4
82.5°	78.8	82.9	110.6	181.0	152.0	298.5	679.9	1037.8	1065.5	966.0	603.9
85°	44.2	45.6	56.7	73.2	63.6	110.6	139.6	142.3	150.6	117.5	89.8
87.5°	5.5	12.4	12.4	12.4	5.5	5.5	4.1	4.1	5.5	4.1	4.1
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°	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8
2.5°	2873.1	2856.5	2892.4	2885.5	2910.4	2906.2	2927.0	2938.0	2961.5	2991.9	2989.2
5°	2933.9	2932.5	2975.3	2996.1	3018.2	3038.9	3040.3	3061.0	3081.8	3127.4	3126.0
7.5°	2991.9	3004.4	3065.2	3066.5	3074.8	3090.0	3069.3	3076.2	3081.8	3098.3	3103.9
10°	3059.6	3083.1	3084.5	3079.0	3052.7	3051.3	3004.4	3009.9	2985.0	3004.4	2994.7
12.5°	3146.7	3127.4	3116.3	3079.0	3038.9	2985.0	2940.8	2880.0	2866.2	2866.2	2870.3
15°	3232.4	3203.4	3108.0	3048.6	2975.3	2889.7	2817.8	2748.7	2714.2	2699.0	2696.2
17.5°	3307.0	3246.2	3110.8	3033.4	2895.2	2769.4	2661.6	2551.1	2497.2	2462.6	2457.1
20°	3367.8	3302.9	3119.1	2983.6	2808.1	2622.9	2459.9	2320.3	2213.9	2135.1	2143.4
22.5°	3470.1	3366.4	3113.5	2924.2	2707.2	2466.8	2220.8	2028.7	1850.4	1806.2	1818.6
25°	3593.1	3457.6	3145.3	2888.3	2589.8	2270.5	1947.2	1724.7	1534.0	1473.2	1477.3
27.5°	3735.4	3568.2	3181.3	2828.9	2468.2	2028.7	1639.0	1364.0	1212.0	1091.7	1082.1
30°	3962.1	3718.8	3219.9	2790.2	2298.2	1759.2	1303.2	1017.1	826.4	761.5	761.5
32.5°	4494.1	4024.2	3282.1	2697.6	2074.3	1458.0	950.8	666.1	497.5	439.5	440.8
35°	5169.9	4640.6	3423.1	2584.2	1810.4	1105.6	587.3	370.4	291.6	262.6	259.8
37.5°	5815.2	5207.2	3724.4	2451.6	1477.3	700.6	330.3	228.0	199.0	197.6	199.0
40°	6213.3	5654.9	4027.0	2274.7	1079.3	385.6	214.2	186.6	182.4	178.3	178.3
42.5°	6580.9	5963.1	4256.4	2003.8	644.0	233.5	187.9	170.0	167.2	160.3	160.3
45°	6879.4	6184.2	4274.4	1643.1	341.3	207.3	172.7	154.8	149.3	145.1	143.7
47.5°	7162.7	6399.8	4209.4	1259.0	243.2	192.1	161.7	142.3	135.4	138.2	136.8
50°	7353.4	6615.4	4032.5	989.5	232.2	178.3	149.3	129.9	127.1	132.7	131.3
52.5°	7559.3	6792.3	3688.4	769.7	215.6	164.5	136.8	121.6	116.1	120.2	121.6
55°	7722.3	6789.5	3435.5	601.1	204.5	153.4	128.5	114.7	105.0	105.0	103.6
57.5°	7802.5	6724.6	3232.4	472.6	192.1	142.3	120.2	100.9	89.8	87.1	85.7
60°	7798.3	6661.0	2996.1	388.3	179.7	129.9	107.8	85.7	74.6	69.1	69.1
62.5°	7754.1	6511.8	2621.6	334.4	167.2	120.2	89.8	70.5	62.2	56.7	58.0
65°	7640.8	6224.3	2161.4	284.7	154.8	116.1	76.0	62.2	53.9	48.4	48.4
67.5°	7248.3	5742.0	1686.0	239.1	142.3	96.7	66.3	52.5	45.6	40.1	40.1
70°	6692.8	5006.8	1109.7	201.8	127.1	84.3	59.4	45.6	38.7	33.2	31.8
72.5°	5704.7	4000.7	563.8	172.7	109.2	74.6	52.5	40.1	33.2	27.6	26.3
75°	4375.3	2694.8	351.0	138.2	85.7	66.3	47.0	35.9	27.6	20.7	19.3
77.5°	2609.1	1084.8	248.8	96.7	58.0	52.5	38.7	29.0	22.1	15.2	15.2
80°	823.6	479.5	168.6	66.3	37.3	35.9	29.0	20.7	15.2	11.1	11.1
82.5°	465.7	304.0	113.3	44.2	26.3	23.5	16.6	12.4	9.7	8.3	8.3
85°	77.4	60.8	34.5	16.6	12.4	11.1	6.9	4.1	2.8	1.4	2.8
87.5°	4.1	4.1	5.5	5.5	5.5	4.1	2.8	0.0	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)