

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: P836092

Luminaire Tested: **ARCH3-140-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12317 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 142.5
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

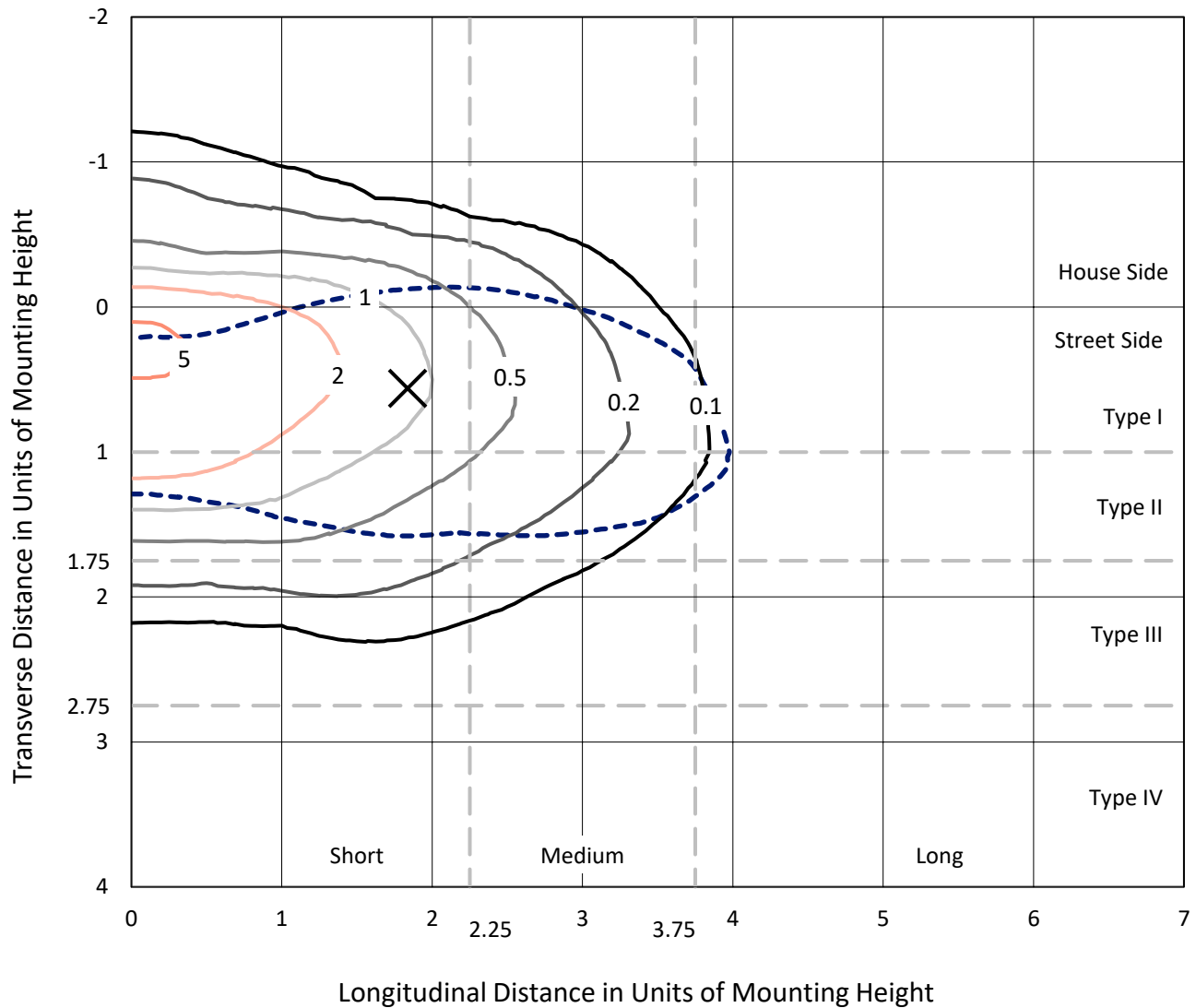


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Iso-Footcandle Lines of Horizontal Illumination

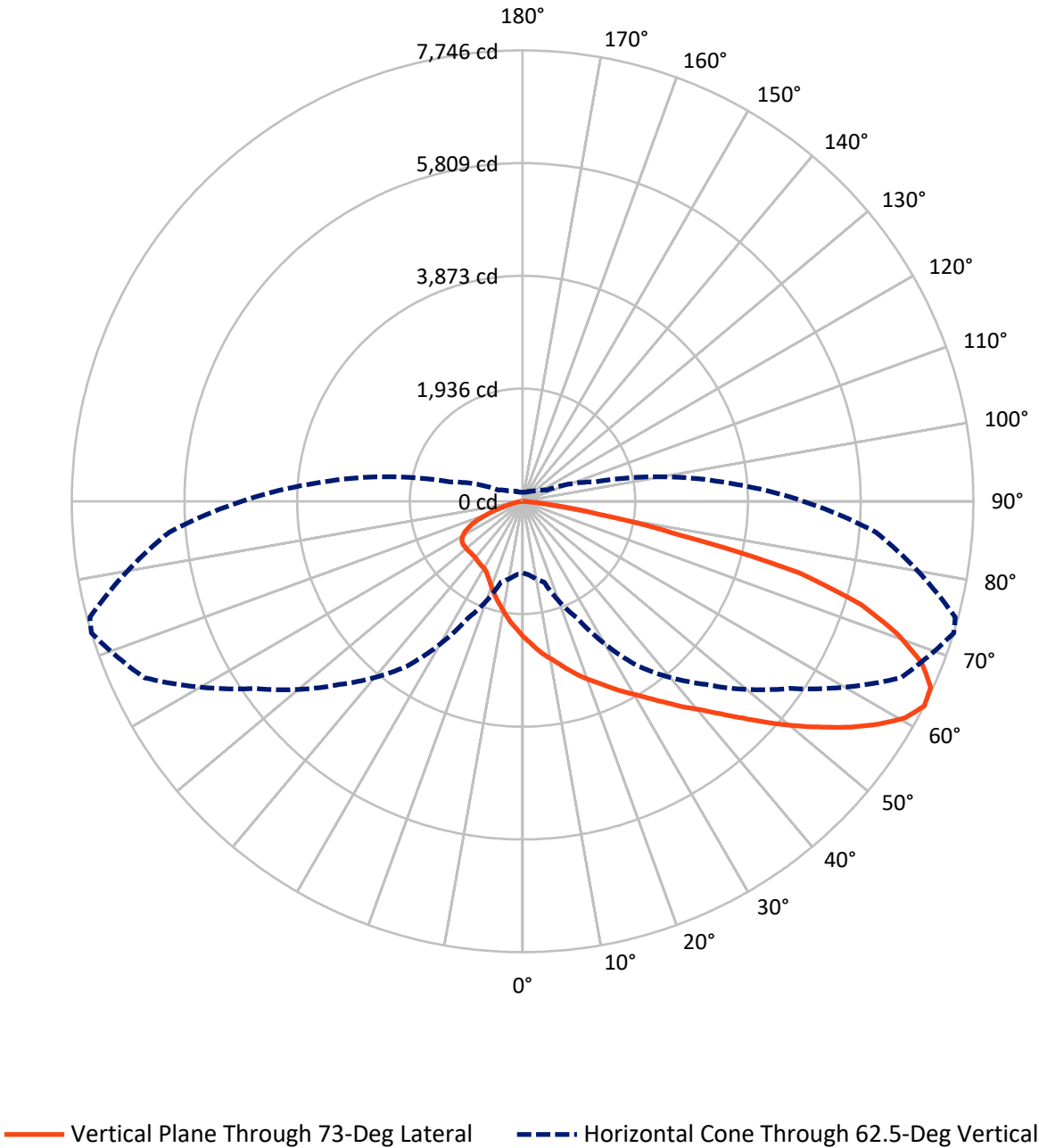
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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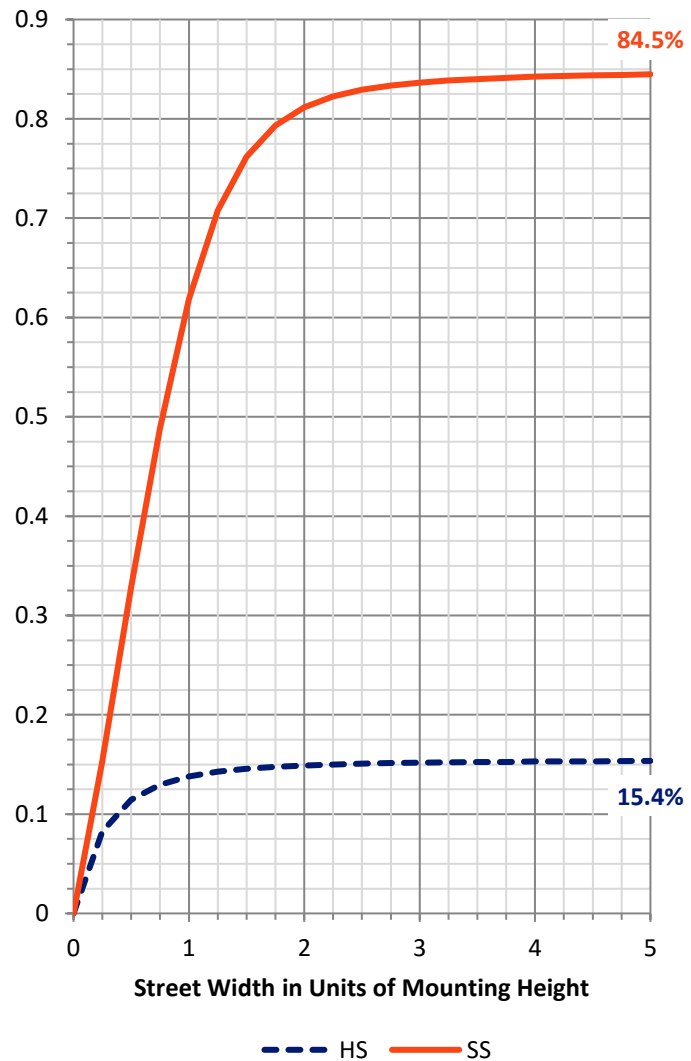
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1909.3	0.0	1909.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10407.7	0.0	10407.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	12317.0	0.0	12317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	1.8
10°-20°	679.9	5.5
20°-30°	1131.7	9.2
30°-40°	1707.5	13.9
40°-50°	2386.7	19.4
50°-60°	2636.2	21.4
60°-70°	2296.5	18.6
70°-80°	1160.1	9.4
80°-90°	93.1	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°	12317.0	100.0
0°-180°	12317.0	100.0

Coefficient of Utilization



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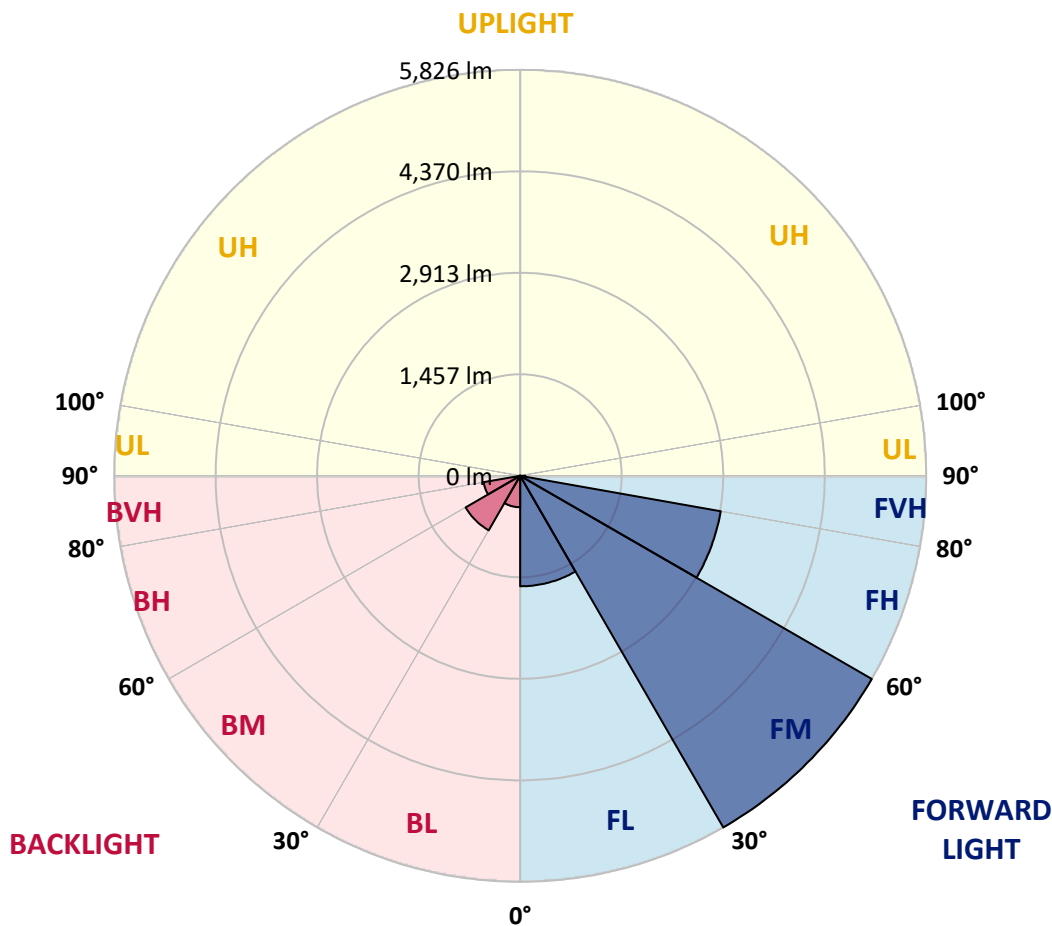
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1585.6	12.9			
FM	(30°-60°)	5826.4	47.3			
FH	(60°-80°)	2923.7	23.7			G2/5000
FVH	(80°-90°)	72.1	0.6			G1/100
BL	(0°-30°)	451.3	3.7	B1/500		
BM	(30°-60°)	904.1	7.3	B1/1000		
BH	(60°-80°)	532.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	21.1	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°	73°	75°	85°
0°	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3
2.5°	2654.3	2683.8	2667.7	2678.5	2624.8	2589.9	2549.6	2471.8	2428.9	2423.5	2372.5
5°	3043.5	3075.7	3048.8	3040.8	2946.8	2866.3	2775.1	2638.2	2547.0	2530.9	2418.1
7.5°	3432.6	3462.1	3429.9	3405.8	3279.6	3137.4	3003.2	2801.9	2659.7	2632.8	2455.7
10°	3706.4	3733.2	3709.1	3684.9	3553.4	3408.5	3217.9	2954.9	2761.7	2718.7	2479.9
12.5°	3913.0	3929.1	3918.4	3896.9	3773.5	3617.8	3435.3	3126.7	2877.1	2823.4	2517.4
15°	4082.1	4108.9	4095.5	4079.4	3961.3	3805.7	3631.2	3306.5	3011.3	2944.2	2573.8
17.5°	4194.8	4213.6	4216.3	4216.3	4111.6	3958.7	3789.6	3470.2	3145.5	3059.6	2627.5
20°	4245.8	4267.3	4280.7	4302.2	4216.3	4084.8	3913.0	3609.8	3271.6	3175.0	2678.5
22.5°	4270.0	4288.8	4323.7	4372.0	4302.2	4192.1	4033.8	3738.6	3397.7	3295.7	2737.5
25°	4288.8	4312.9	4363.9	4455.2	4406.9	4312.9	4176.0	3886.2	3548.0	3443.4	2823.4
27.5°	4339.8	4369.3	4417.6	4527.6	4468.6	4423.0	4326.3	4044.5	3706.4	3599.0	2928.1
30°	4516.9	4541.0	4538.4	4608.1	4535.7	4522.3	4455.2	4197.5	3859.4	3752.0	3051.5
32.5°	4838.9	4863.1	4804.1	4777.2	4618.9	4621.6	4594.7	4361.2	4041.9	3931.8	3193.8
35°	5185.2	5212.0	5134.2	5088.5	4822.8	4745.0	4758.4	4565.2	4245.8	4135.8	3370.9
37.5°	5493.8	5526.0	5458.9	5391.8	5123.4	4943.6	4940.9	4793.3	4479.3	4366.6	3566.8
40°	5662.9	5700.5	5740.7	5703.1	5421.3	5222.7	5136.9	5026.8	4710.1	4594.7	3778.8
42.5°	5743.4	5848.1	5920.5	5896.4	5665.6	5464.3	5362.3	5271.0	4991.9	4879.2	4031.1
45°	5518.0	5520.6	5673.6	5805.1	5762.2	5628.0	5609.2	5544.8	5314.0	5206.6	4315.6
47.5°	5236.2	5214.7	5322.0	5555.5	5676.3	5711.2	5821.2	5848.1	5681.7	5574.3	4605.5
50°	4559.8	4573.2	4922.1	5257.6	5493.8	5719.2	5971.5	6159.4	6060.1	5958.1	4911.4
52.5°	3709.1	3741.3	4141.2	4879.2	5252.3	5638.7	6060.1	6470.7	6446.6	6349.9	5217.4
55°	2973.7	3024.7	3448.7	4248.5	4943.6	5458.9	6097.7	6755.2	6846.5	6757.9	5518.0
57.5°	2273.2	2326.9	2683.8	3505.1	4549.1	5166.4	6070.8	7004.8	7219.5	7163.1	5794.4
60°	1712.3	1766.0	1994.1	2842.2	4055.3	4838.9	5936.6	7168.5	7555.0	7495.9	5995.7
62.5°	1226.5	1269.5	1438.5	2211.5	3454.1	4449.8	5606.5	7171.2	7745.5	7697.2	6092.3
65°	883.0	883.0	1019.9	1578.1	2890.5	3982.8	5107.3	6841.1	7705.3	7691.9	6025.2
67.5°	636.1	641.4	751.5	1103.1	2305.4	3416.5	4460.5	6253.3	7394.0	7461.1	5783.7
70°	450.9	464.3	515.3	770.3	1741.8	2697.3	3768.1	5483.1	6833.0	6951.1	5316.7
72.5°	348.9	356.9	391.8	536.8	1272.1	2004.8	3003.2	4624.2	6084.2	6218.4	4680.6
75°	268.4	276.4	303.3	394.5	912.5	1406.3	2133.6	3588.3	4906.0	5144.9	3760.0
77.5°	195.9	206.7	225.4	287.2	531.4	893.7	1293.6	2018.2	2708.0	2820.7	1969.9
80°	91.3	104.7	131.5	185.2	287.2	421.4	458.9	778.3	1301.7	1360.7	1068.2
82.5°	51.0	64.4	75.1	112.7	144.9	150.3	155.7	195.9	491.1	542.1	448.2
85°	24.2	32.2	34.9	48.3	48.3	42.9	51.0	37.6	80.5	96.6	93.9
87.5°	0.0	2.7	5.4	13.4	10.7	8.1	8.1	8.1	8.1	10.7	8.1
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°	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3	2332.3
2.5°	2348.4	2313.5	2232.9	2163.2	2117.5	2077.3	2023.6	1999.5	1956.5	1964.6	1940.4
5°	2361.8	2297.4	2155.1	2023.6	1927.0	1841.1	1747.2	1693.5	1634.5	1629.1	1610.3
7.5°	2369.8	2270.5	2066.6	1881.4	1733.8	1602.2	1476.1	1406.3	1333.9	1317.8	1301.7
10°	2361.8	2230.3	1975.3	1733.8	1537.8	1374.1	1231.9	1143.3	1068.2	1049.4	1033.3
12.5°	2369.8	2208.8	1889.4	1596.9	1363.4	1178.2	1017.2	925.9	856.1	837.4	826.6
15°	2388.6	2195.4	1817.0	1473.4	1207.7	1001.1	842.7	764.9	708.5	689.7	684.4
17.5°	2404.7	2182.0	1739.1	1352.7	1052.1	845.4	708.5	644.1	595.8	577.0	571.7
20°	2426.2	2163.2	1661.3	1237.2	915.2	722.0	601.2	544.8	507.2	493.8	491.1
22.5°	2445.0	2149.7	1588.8	1121.8	789.0	622.6	520.7	475.0	448.2	434.8	434.8
25°	2493.3	2155.1	1527.1	1014.5	695.1	544.8	458.9	424.0	402.6	394.5	394.5
27.5°	2549.6	2176.6	1478.8	923.2	614.6	485.8	416.0	386.5	375.7	365.0	367.7
30°	2630.2	2219.5	1446.6	848.1	555.6	440.1	381.1	359.6	348.9	346.2	346.2
32.5°	2732.1	2289.3	1443.9	799.8	512.6	405.3	356.9	338.2	332.8	330.1	330.1
35°	2852.9	2351.0	1427.8	778.3	485.8	381.1	338.2	324.7	322.1	322.1	322.1
37.5°	2997.8	2453.0	1417.1	748.8	472.4	367.7	324.7	314.0	314.0	314.0	314.0
40°	3148.1	2536.2	1401.0	722.0	467.0	359.6	316.7	303.3	303.3	303.3	303.3
42.5°	3328.0	2657.0	1395.6	708.5	458.9	354.3	306.0	289.9	292.5	292.5	295.2
45°	3545.3	2793.9	1392.9	695.1	456.3	348.9	295.2	276.4	279.1	276.4	276.4
47.5°	3765.4	2952.2	1401.0	687.1	453.6	343.5	287.2	263.0	263.0	260.3	260.3
50°	3996.2	3097.1	1406.3	679.0	448.2	332.8	273.8	252.3	246.9	241.5	244.2
52.5°	4213.6	3231.3	1409.0	665.6	432.1	316.7	263.0	238.9	230.8	222.8	225.4
55°	4431.0	3360.2	1414.4	649.5	410.6	300.6	249.6	225.4	214.7	204.0	204.0
57.5°	4626.9	3472.9	1401.0	609.2	386.5	284.5	236.2	209.3	193.2	182.5	182.5
60°	4761.1	3553.4	1360.7	550.2	354.3	265.7	222.8	193.2	174.4	166.4	166.4
62.5°	4825.5	3566.8	1288.2	453.6	314.0	246.9	206.7	177.1	161.0	155.7	155.7
65°	4763.8	3507.8	1175.5	340.8	271.1	225.4	190.6	163.7	147.6	134.2	134.2
67.5°	4549.1	3341.4	1019.9	257.6	230.8	204.0	174.4	150.3	131.5	120.8	120.8
70°	4117.0	2995.2	789.0	206.7	195.9	177.1	158.3	134.2	118.1	104.7	104.7
72.5°	3550.7	2538.9	555.6	166.4	166.4	150.3	134.2	118.1	102.0	91.3	91.3
75°	2724.1	1878.7	373.1	134.2	136.9	126.1	110.0	96.6	85.9	77.8	77.8
77.5°	1486.8	928.6	228.1	99.3	102.0	96.6	85.9	77.8	72.5	64.4	64.4
80°	722.0	407.9	131.5	69.8	72.5	69.8	64.4	56.4	56.4	51.0	51.0
82.5°	303.3	153.0	69.8	48.3	48.3	42.9	40.3	40.3	40.3	37.6	37.6
85°	75.1	29.5	29.5	26.8	26.8	26.8	24.2	24.2	24.2	18.8	21.5
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	8.1	2.7	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)