

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: P639166

Luminaire Tested: **USSL-M-PA6A-730-U-T4W**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6A-730-U-T4W
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37528 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

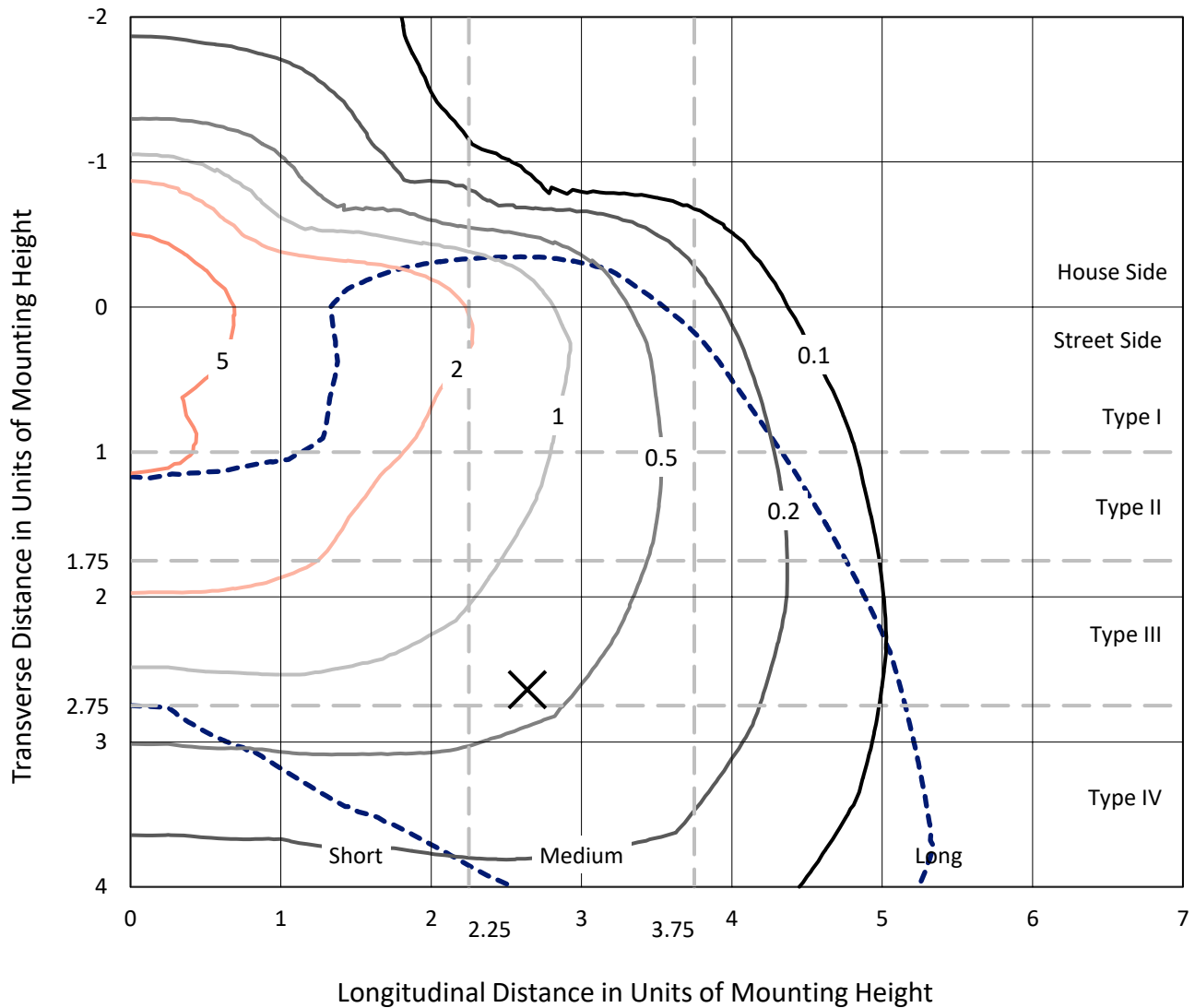
Input Watts (W): 273.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

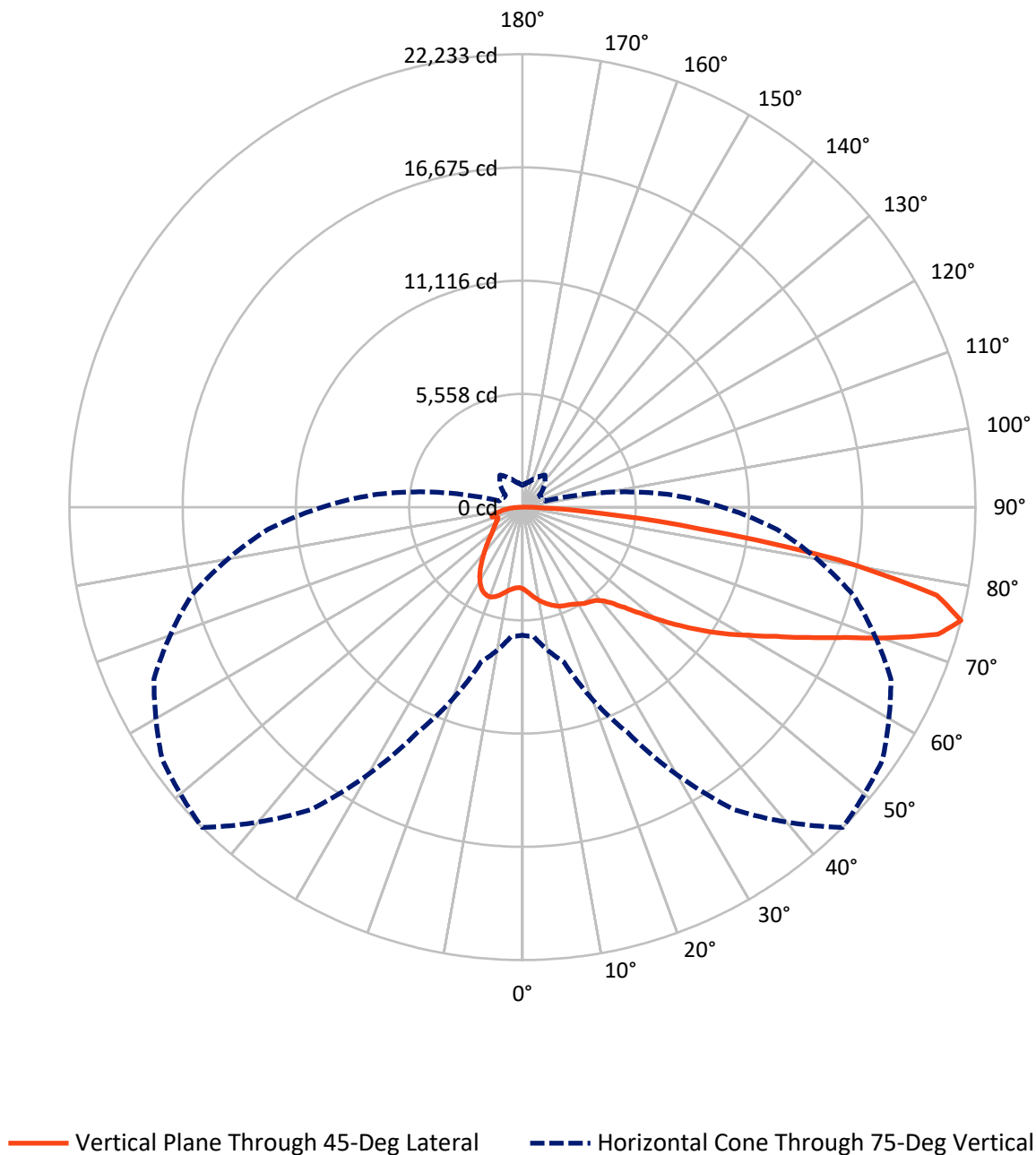
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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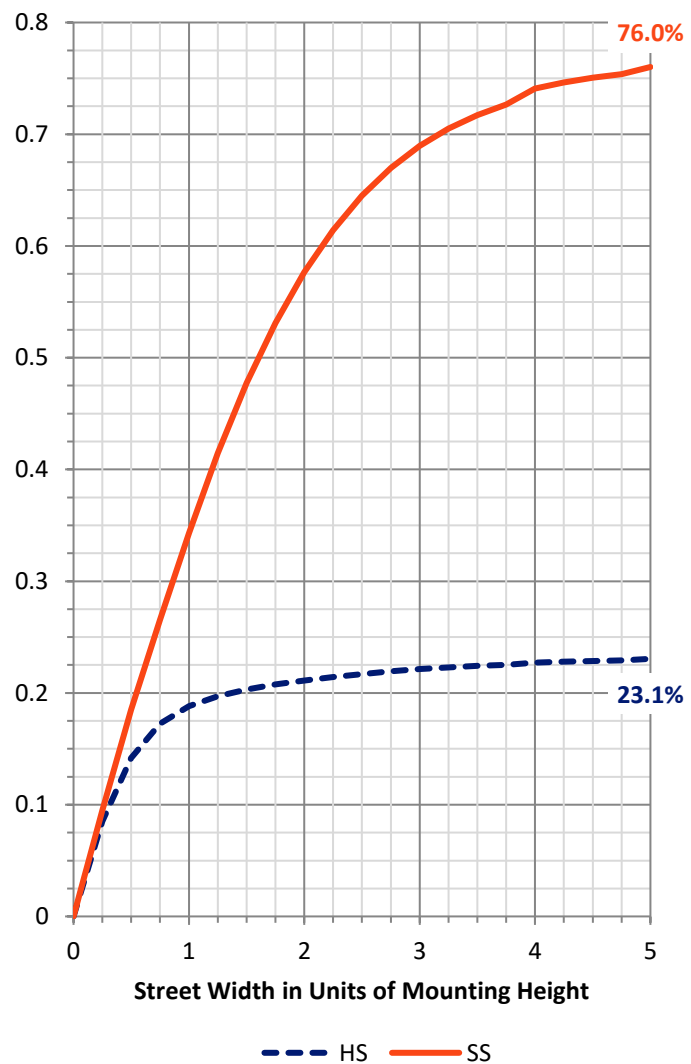
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8831.0	0.0	8831.0
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	28697.0	0.0	28697.0
	% Fixture	76.5	0.0	76.5
Total	Lumens	37528.0	0.0	37528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.1	1.1
10°-20°	1336.6	3.6
20°-30°	2300.5	6.1
30°-40°	3169.7	8.4
40°-50°	4415.6	11.8
50°-60°	6610.8	17.6
60°-70°	9370.3	25.0
70°-80°	8426.8	22.5
80°-90°	1493.7	4.0
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°	37528.0	100.0
0°-180°	37528.0	100.0

Coefficient of Utilization



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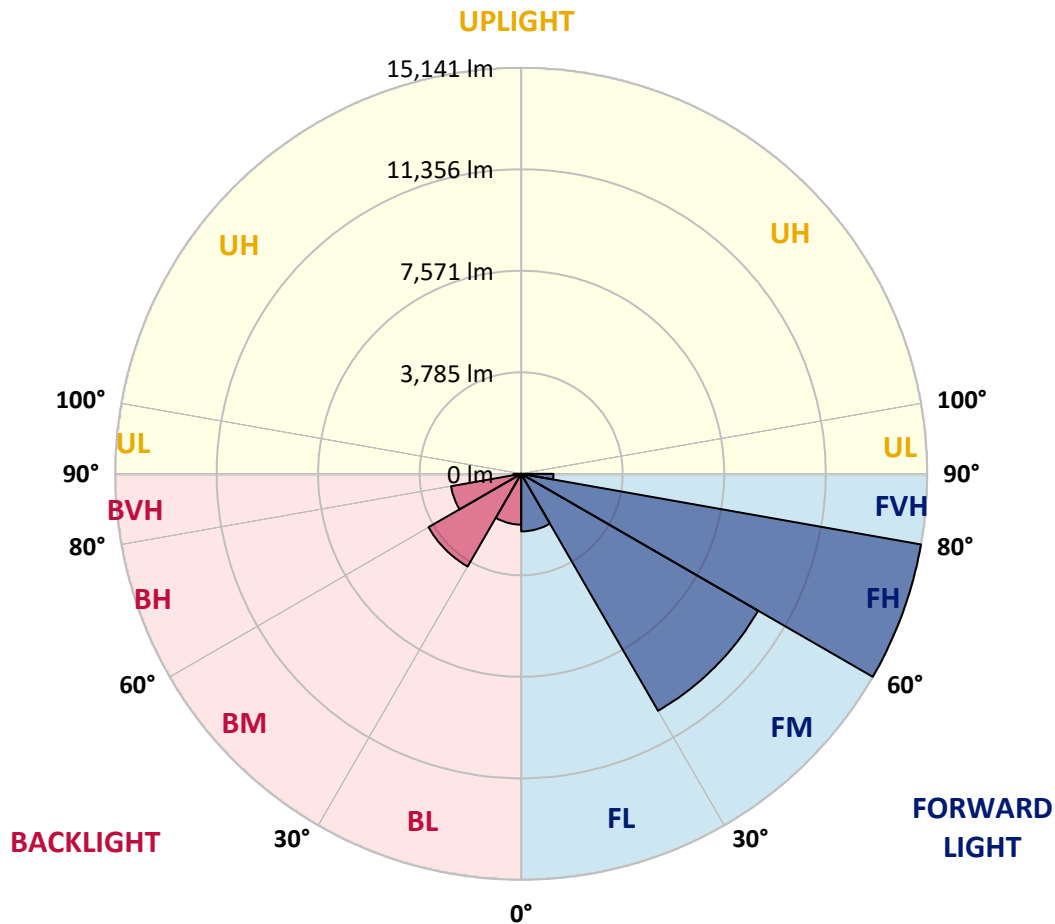
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2146.5	5.7			
FM	(30°-60°)	10205.2	27.2			
FH	(60°-80°)	15141.5	40.3			G5
FVH	(80°-90°)	1203.8	3.2			G5
BL	(0°-30°)	1894.7	5.0	B3/2500		
BM	(30°-60°)	3990.9	10.6	B3/5000		
BH	(60°-80°)	2655.5	7.1	B4/5000		G4/5000
BVH	(80°-90°)	289.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1
2.5°	4233.1	4222.1	4215.8	4182.1	4156.6	4142.0	4107.4	4081.9	4046.4	4019.0	4010.8
5°	4530.0	4509.0	4491.7	4435.2	4375.1	4315.9	4232.1	4159.3	4080.1	4019.9	3999.9
7.5°	4821.4	4805.0	4769.5	4683.0	4593.7	4497.2	4376.0	4268.6	4156.6	4072.8	4040.9
10°	5077.3	5056.4	4995.3	4897.0	4781.3	4675.7	4539.1	4416.1	4286.8	4184.8	4143.8
12.5°	5297.7	5266.7	5189.3	5067.3	4929.8	4821.4	4693.0	4580.0	4438.0	4319.6	4270.4
15°	5481.7	5446.1	5366.0	5207.5	5052.7	4962.6	4850.5	4744.0	4597.4	4459.8	4404.3
17.5°	5615.5	5584.6	5494.4	5308.6	5152.0	5082.8	4992.6	4897.9	4754.9	4602.8	4550.0
20°	5666.5	5629.2	5550.9	5358.7	5219.4	5187.5	5118.3	5038.1	4904.3	4754.0	4696.6
22.5°	5621.0	5590.0	5527.2	5351.4	5247.6	5252.2	5210.3	5156.5	5041.8	4893.3	4844.2
25°	5552.7	5519.9	5472.6	5323.2	5268.6	5309.5	5294.1	5267.6	5182.9	5040.0	4989.9
27.5°	5525.4	5487.1	5450.7	5325.0	5311.4	5392.4	5398.8	5399.7	5328.7	5183.9	5146.5
30°	5604.6	5561.8	5510.8	5378.8	5388.8	5508.1	5547.2	5529.0	5452.5	5322.3	5289.5
32.5°	5846.0	5800.4	5708.4	5507.2	5483.5	5629.2	5676.6	5622.8	5550.9	5447.1	5434.3
35°	6389.7	6319.5	6135.6	5774.9	5606.4	5703.9	5770.4	5731.2	5672.9	5611.0	5625.6
37.5°	7278.5	7182.0	6886.0	6267.6	5838.7	5809.5	5902.4	5903.3	5849.6	5824.1	5863.3
40°	8325.0	8223.9	7916.0	7060.0	6289.5	6032.7	6117.4	6161.1	6112.8	6130.1	6187.5
42.5°	9342.2	9237.5	9017.1	8053.6	6896.9	6433.4	6449.8	6557.2	6509.0	6567.3	6668.3
45°	10157.3	10069.0	9980.7	9017.1	7737.5	7021.7	6904.2	7093.7	7076.3	7190.2	7331.4
47.5°	10732.9	10641.8	10652.8	9933.3	8739.3	7773.1	7488.9	7803.1	7813.1	8063.6	8219.3
50°	11196.5	11108.1	11137.3	10712.0	9747.5	8675.6	8226.6	8641.0	8804.0	9183.8	9370.5
52.5°	11721.1	11645.5	11709.2	11420.5	10809.4	9652.8	9084.5	9653.7	9906.9	10503.4	10693.8
55°	12312.1	12246.5	12447.8	12271.1	11956.0	10676.5	10038.0	10800.3	11116.3	12037.1	12279.3
57.5°	12786.6	12716.5	13141.8	13313.9	13174.6	11727.4	11096.3	11993.4	12313.9	13748.3	13982.4
60°	13334.0	13232.9	13765.6	14301.1	14463.3	12761.1	12287.5	13303.0	13615.4	15604.4	15673.6
62.5°	13667.3	13589.9	14306.6	15180.9	15619.9	13970.6	13649.1	14608.1	14945.9	17523.3	17190.9
65°	13202.8	13241.1	14604.4	15884.0	16669.0	15422.3	15147.2	15991.5	16337.5	19235.5	18212.7
67.5°	12244.7	12317.6	14262.9	16343.9	17741.9	17078.9	16724.6	17448.6	17685.4	20239.1	18384.8
70°	11113.6	11180.1	13168.2	16431.3	18746.4	19190.8	18664.4	19028.7	18727.3	19869.3	17128.0
72.5°	9416.9	9593.6	11128.2	15301.1	19182.6	21332.0	20751.8	20242.7	18668.1	17328.4	14129.0
75°	6287.7	6376.0	7873.2	12203.7	18129.8	22232.7	21586.1	19954.0	16838.4	12528.9	9825.8
77.5°	2778.6	3055.5	4092.8	7154.7	14165.4	20796.5	19805.6	16712.8	11678.3	6885.1	4879.7
80°	1018.2	1077.4	1597.4	2960.8	8216.6	15748.3	14365.8	10657.3	5903.3	2612.9	1823.3
82.5°	569.2	596.5	868.8	1355.2	3688.4	8788.5	7992.5	4595.5	2035.5	858.8	765.9
85°	314.2	327.9	532.8	850.6	1793.2	3818.7	3042.7	1558.3	824.2	344.3	326.0
87.5°	138.4	162.1	286.9	430.8	817.8	873.4	756.8	608.4	384.3	130.2	114.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1	4008.1
2.5°	4001.7	3988.1	3979.9	3961.7	3950.7	3954.4	3956.2	3962.6	3973.5	3949.8
5°	3985.3	3966.2	3964.4	3964.4	3977.1	3997.2	4016.3	4031.8	4054.6	4024.5
7.5°	4020.9	3999.9	4000.8	4013.6	4039.1	4077.3	4119.2	4147.5	4180.2	4144.7
10°	4125.6	4100.1	4108.3	4118.3	4146.5	4191.2	4246.7	4295.9	4336.0	4309.6
12.5°	4253.1	4230.3	4235.8	4259.5	4294.1	4336.0	4387.0	4432.5	4471.7	4437.1
15°	4383.3	4373.3	4383.3	4421.6	4463.5	4483.5	4489.0	4510.8	4537.2	4508.1
17.5°	4536.3	4524.5	4535.4	4585.5	4595.5	4575.5	4535.4	4526.3	4541.8	4515.4
20°	4680.2	4674.8	4683.9	4709.4	4675.7	4602.8	4536.3	4509.9	4530.0	4503.5
22.5°	4835.1	4804.1	4795.0	4765.8	4672.9	4581.0	4509.9	4486.2	4515.4	4496.3
25°	4985.3	4911.6	4843.2	4732.1	4594.6	4512.7	4458.9	4438.0	4467.1	4458.9
27.5°	5125.6	4997.2	4830.5	4603.7	4450.7	4379.7	4356.0	4349.6	4387.0	4382.4
30°	5270.4	5065.5	4748.5	4407.9	4220.3	4164.8	4199.4	4241.3	4286.8	4295.0
32.5°	5416.1	5113.7	4605.5	4155.6	3951.6	3903.4	3999.9	4095.5	4157.5	4179.3
35°	5591.0	5148.3	4411.6	3859.7	3632.9	3620.1	3737.6	3862.4	3949.8	3966.2
37.5°	5806.8	5168.4	4173.9	3547.3	3301.4	3294.1	3401.6	3515.4	3589.2	3626.5
40°	6106.4	5172.0	3871.5	3199.4	2969.9	2959.9	3002.7	3063.7	3102.8	3144.7
42.5°	6531.7	5159.3	3562.8	2847.8	2682.1	2642.9	2624.7	2613.8	2551.9	2563.7
45°	7111.9	5143.8	3238.5	2541.8	2414.3	2328.7	2273.2	2192.1	2070.1	2068.3
47.5°	7853.2	5163.8	2948.9	2277.7	2184.8	2089.2	1980.8	1854.2	1722.2	1714.9
50°	8723.9	5248.5	2655.7	2050.0	1986.3	1894.3	1770.5	1619.3	1492.7	1480.8
52.5°	9721.1	5346.9	2364.2	1852.4	1834.2	1746.8	1611.1	1458.1	1358.8	1344.2
55°	10895.9	5523.6	2087.4	1688.5	1705.8	1629.3	1494.5	1352.4	1269.6	1261.4
57.5°	12156.4	5682.9	1831.5	1556.4	1596.5	1541.0	1416.2	1286.9	1224.9	1209.4
60°	13507.0	5535.4	1638.4	1442.6	1501.8	1473.6	1349.7	1225.8	1192.1	1183.9
62.5°	14635.4	4932.5	1484.5	1345.1	1420.7	1416.2	1298.7	1199.4	1192.1	1186.7
65°	15226.4	3938.9	1375.2	1263.2	1355.2	1362.4	1290.5	1209.4	1226.7	1233.1
67.5°	14966.9	2860.6	1301.4	1196.7	1300.5	1435.3	1504.5	1465.4	1467.2	1461.7
70°	13653.6	2014.5	1233.1	1144.8	1374.3	1826.9	1813.3	1611.1	1517.3	1463.5
72.5°	11073.5	1490.9	1155.7	1106.5	1570.1	2040.0	1783.2	1459.9	1315.1	1267.7
75°	7173.8	1180.3	1044.6	1018.2	1537.3	1923.5	1578.3	1284.1	1132.9	1086.5
77.5°	3293.2	951.7	904.4	858.8	1296.0	1659.3	1329.7	1080.1	951.7	937.1
80°	1292.3	786.0	731.3	696.7	1061.0	1432.6	1167.6	944.4	828.8	804.2
82.5°	645.7	621.1	565.6	530.0	899.8	1293.2	1030.9	814.2	712.2	667.6
85°	347.9	415.3	394.3	353.4	634.8	961.7	751.3	570.1	472.7	468.1
87.5°	172.1	189.4	159.4	168.5	325.1	516.4	463.6	357.9	270.5	283.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)