

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: P1211061

Luminaire Tested: **ARCH4-160-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22062 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.7
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

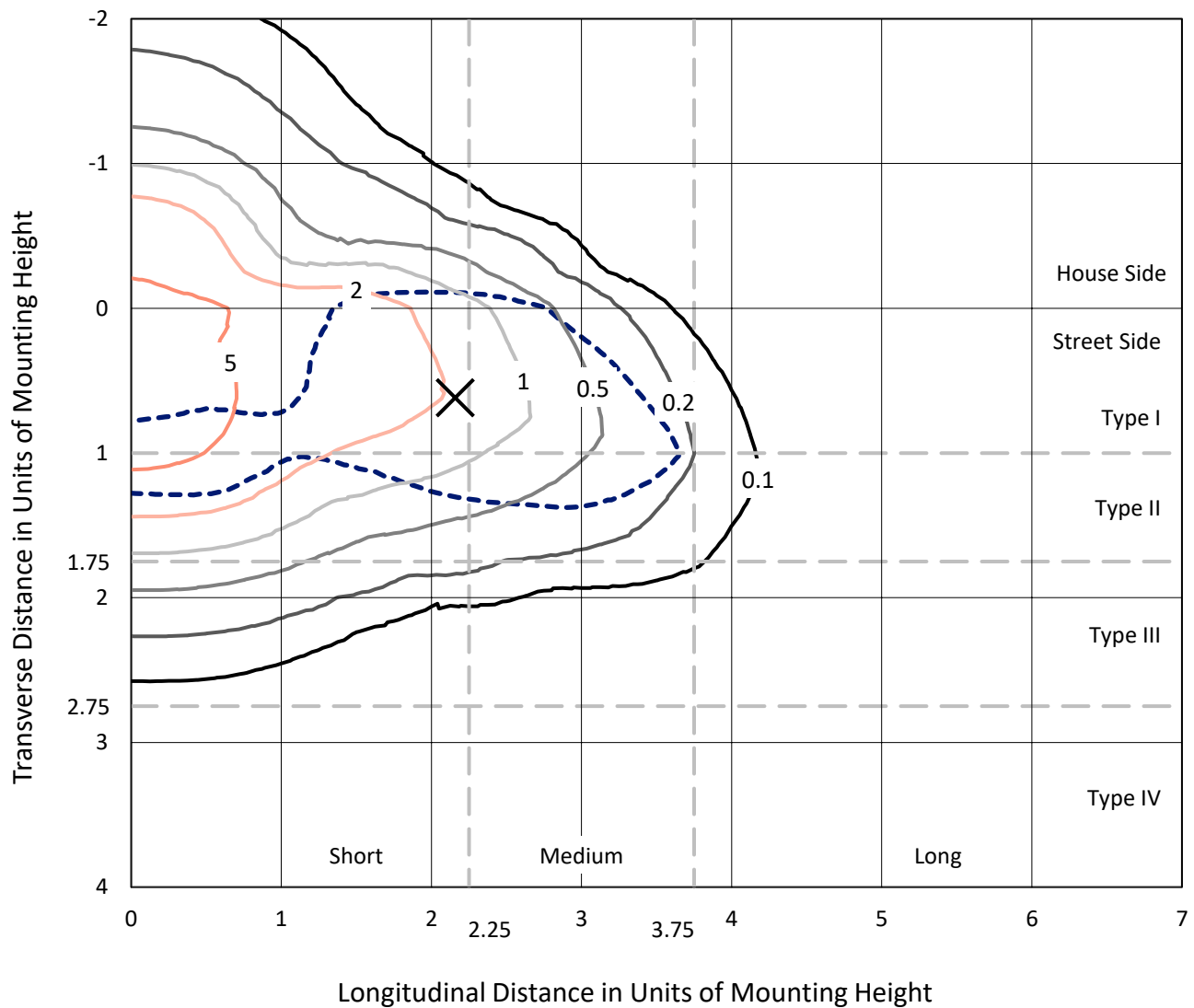


REPORT NUMBER: P1211061

CATALOG NUMBER: ARCH4-160-722-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

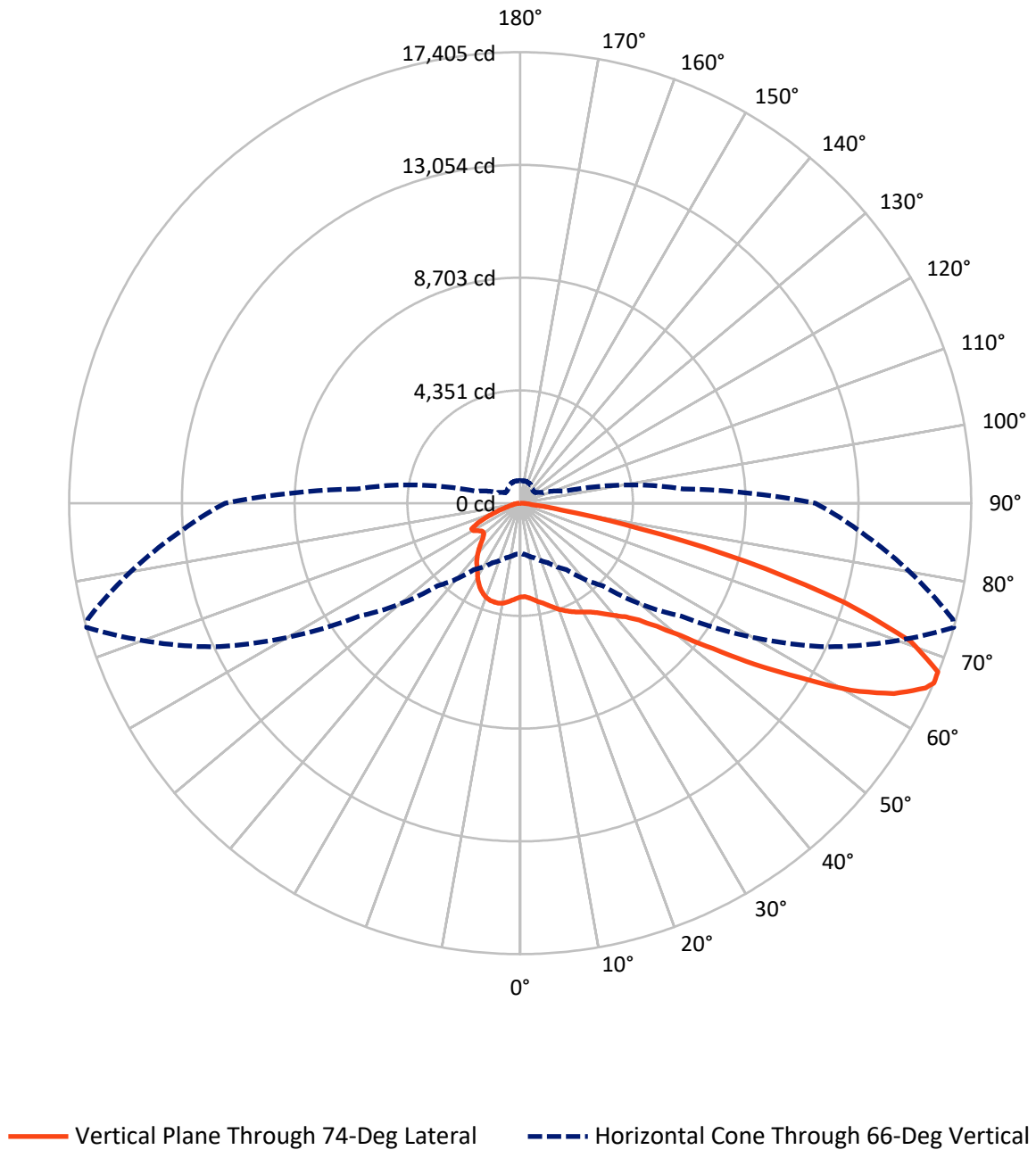
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type II - Short - N/A

REPORT NUMBER: P1211061
CATALOG NUMBER: ARCH4-160-722-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211061

CATALOG NUMBER: ARCH4-160-722-U-T2RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5372.7	0.0	5372.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	16689.3	0.0	16689.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	22062.0	0.0	22062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.0	1.6
10°-20°	1060.9	4.8
20°-30°	1990.9	9.0
30°-40°	3062.4	13.9
40°-50°	4119.2	18.7
50°-60°	4871.5	22.1
60°-70°	4506.4	20.4
70°-80°	1895.8	8.6
80°-90°	209.8	1.0
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°	22062.0	100.0
0°-180°	22062.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211061

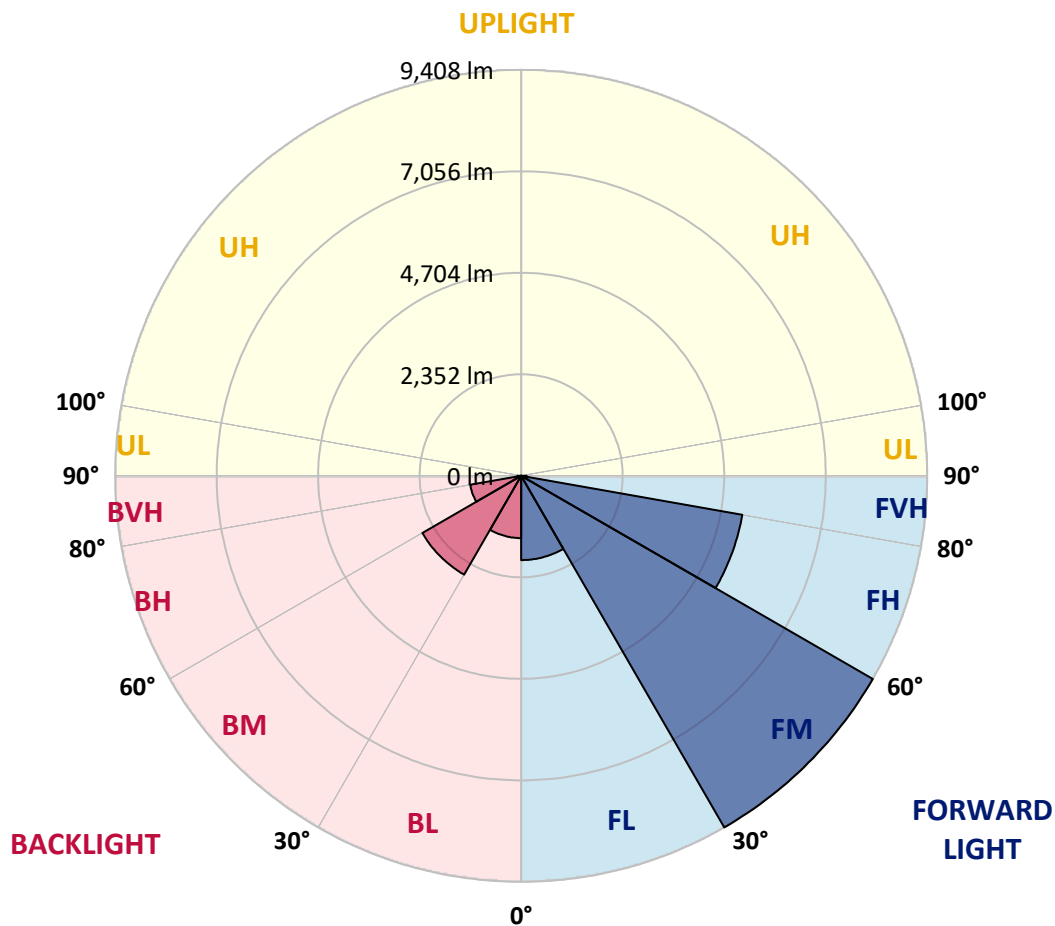
CATALOG NUMBER: ARCH4-160-722-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1952.8	8.9			
FM	(30°-60°)	9408.2	42.6			
FH	(60°-80°)	5202.8	23.6			G3/7500
FVH	(80°-90°)	125.5	0.6			G2/225
BL	(0°-30°)	1444.1	6.5	B3/2500		
BM	(30°-60°)	2645.0	12.0	B3/5000		
BH	(60°-80°)	1199.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	84.3	0.4			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 II Short



REPORT NUMBER: P1211061

CATALOG NUMBER: ARCH4-160-722-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7
2.5°	3605.3	3599.7	3611.0	3628.1	3636.6	3622.4	3616.7	3613.9	3613.9	3605.3	3619.5
5°	3435.0	3432.2	3457.7	3488.9	3548.6	3591.1	3647.9	3682.0	3670.6	3653.6	3665.0
7.5°	3213.6	3207.9	3239.1	3298.7	3381.1	3474.8	3613.9	3721.7	3764.3	3758.6	3755.8
10°	3298.7	3293.1	3290.2	3273.2	3301.6	3392.4	3537.2	3727.4	3872.2	3875.0	3877.9
12.5°	3594.0	3608.2	3594.0	3540.0	3477.6	3443.5	3528.7	3741.6	3963.0	3980.1	4051.0
15°	3997.1	3982.9	3954.5	3892.1	3795.5	3693.3	3630.9	3806.9	4093.6	4107.8	4264.0
17.5°	4352.0	4363.3	4346.3	4286.7	4173.1	4039.7	3849.5	3920.5	4232.7	4272.5	4491.1
20°	4738.0	4783.5	4760.8	4686.9	4593.3	4394.5	4156.1	4085.1	4386.0	4414.4	4726.7
22.5°	5183.7	5232.0	5189.4	5118.4	5041.8	4797.7	4491.1	4286.7	4513.8	4573.4	4953.8
25°	5717.4	5762.9	5723.1	5612.4	5515.9	5217.8	4851.6	4513.8	4638.7	4704.0	5138.3
27.5°	6140.4	6174.5	6211.4	6146.1	5998.5	5689.1	5226.3	4749.4	4763.6	4831.7	5308.7
30°	6518.0	6603.2	6634.4	6642.9	6518.0	6171.7	5609.6	4993.5	4871.5	4942.4	5479.0
32.5°	7034.7	7162.4	7111.3	7162.4	7088.6	6625.9	6007.0	5246.2	5010.6	5075.9	5640.8
35°	7789.8	7892.0	7758.6	7718.8	7599.6	7085.8	6390.3	5507.4	5195.1	5266.1	5794.1
37.5°	8601.7	8718.1	8525.1	8366.1	8139.0	7540.0	6719.6	5850.9	5450.6	5507.4	5936.0
40°	9311.4	9407.9	9240.5	9030.4	8650.0	7940.3	7003.4	6092.2	5706.1	5777.1	6100.7
42.5°	9967.2	10029.7	9842.3	9640.7	9132.6	8300.8	7310.0	6347.7	6004.2	6072.3	6234.1
45°	10631.5	10679.8	10418.6	10131.9	9535.7	8630.1	7647.9	6705.4	6441.4	6532.2	6449.9
47.5°	10750.7	10764.9	10719.5	10526.5	9853.6	8945.2	8065.2	7185.1	7108.5	7207.8	6821.8
50°	9924.6	10052.4	10333.4	10523.6	9981.4	9209.2	8482.5	7872.1	8028.3	8156.0	7593.9
52.5°	8320.7	8442.7	9092.8	9813.9	9674.8	9268.8	8931.0	8743.7	9325.6	9478.9	8644.3
55°	6628.7	6736.6	7423.6	8462.6	8684.0	8996.3	9410.8	9856.5	10980.7	11082.9	9796.9
57.5°	5459.1	5518.7	6009.8	7009.1	7364.0	8124.8	9669.1	11179.4	12664.1	12820.2	10799.0
60°	4476.9	4542.2	4908.4	5731.6	6202.9	6878.5	9464.7	12485.3	14674.0	14674.0	12085.0
62.5°	3369.7	3426.5	3767.2	4411.6	5203.6	5822.5	8811.8	13351.1	16190.0	16121.8	13016.1
65°	2313.7	2359.1	2606.1	3034.7	3747.3	4962.3	7920.4	13362.5	17194.9	17104.1	13413.6
66°	1941.8	1981.5	2191.6	2537.9	3136.9	4502.4	7605.3	13121.2	17405.0	17277.2	13246.1
67.5°	1533.0	1561.4	1700.5	1904.9	2299.5	3645.1	7108.5	12437.0	17385.1	17308.5	12820.2
70°	1095.8	1115.7	1217.9	1260.4	1359.8	2109.3	5646.5	10892.7	15991.2	16014.0	11145.3
72.5°	848.8	880.0	942.5	951.0	928.3	1121.3	3426.5	9087.2	13081.4	13072.9	8272.4
75°	684.2	701.2	732.4	749.5	743.8	723.9	1450.7	6779.2	9004.8	9109.9	4633.0
77.5°	539.4	536.5	564.9	587.6	604.7	567.8	664.3	3974.4	4721.0	4587.6	1740.2
80°	397.4	397.4	437.2	445.7	471.2	476.9	442.9	1533.0	1621.0	1473.4	451.4
82.5°	261.2	261.2	303.8	309.4	335.0	371.9	320.8	459.9	448.5	425.8	204.4
85°	141.9	136.3	150.5	170.3	184.5	218.6	193.0	229.9	235.6	232.8	136.3
87.5°	28.4	25.5	39.7	45.4	51.1	68.1	62.5	93.7	130.6	127.7	59.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211061

CATALOG NUMBER: ARCH4-160-722-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7	3616.7
2.5°	3639.4	3636.6	3667.8	3704.7	3747.3	3772.8	3784.2	3804.1	3789.9	3795.5	3812.6
5°	3693.3	3701.9	3747.3	3795.5	3815.4	3801.2	3770.0	3758.6	3733.1	3727.4	3721.7
7.5°	3772.8	3787.0	3832.4	3843.8	3784.2	3684.8	3613.9	3574.1	3531.5	3520.2	3514.5
10°	3903.4	3911.9	3923.3	3806.9	3659.3	3525.9	3437.8	3400.9	3372.6	3349.8	3355.5
12.5°	4068.1	4062.4	3974.4	3733.1	3523.0	3386.7	3327.1	3304.4	3284.5	3270.4	3267.5
15°	4275.3	4235.6	3982.9	3630.9	3395.3	3281.7	3239.1	3230.6	3207.9	3207.9	3205.1
17.5°	4485.4	4383.2	3977.2	3523.0	3273.2	3210.7	3185.2	3179.5	3173.8	3171.0	3179.5
20°	4695.5	4513.8	3931.8	3389.6	3188.0	3151.1	3145.4	3148.3	3142.6	3151.1	3145.4
22.5°	4880.0	4598.9	3846.6	3247.6	3128.4	3125.6	3111.4	3117.1	3136.9	3139.8	3148.3
25°	5021.9	4630.2	3721.7	3117.1	3085.8	3080.2	3097.2	3119.9	3136.9	3139.8	3154.0
27.5°	5138.3	4613.1	3565.6	3014.9	3012.0	3043.2	3094.3	3102.9	3105.7	3105.7	3094.3
30°	5226.3	4576.2	3366.9	2901.3	2915.5	2992.1	3040.4	3040.4	3017.7	3012.0	3029.1
32.5°	5246.2	4528.0	3151.1	2784.9	2807.6	2898.5	2958.1	2938.2	2912.7	2912.7	2924.0
35°	5263.2	4462.7	2978.0	2625.9	2660.0	2767.9	2824.7	2784.9	2756.5	2748.0	2745.2
37.5°	5257.6	4437.1	2821.8	2424.4	2469.8	2574.8	2611.7	2574.8	2532.3	2512.4	2537.9
40°	5263.2	4420.1	2625.9	2202.9	2248.4	2310.8	2359.1	2330.7	2291.0	2239.9	2265.4
42.5°	5297.3	4442.8	2410.2	1987.2	1987.2	2021.3	2103.6	2083.7	1987.2	1967.3	1990.0
45°	5479.0	4564.9	2194.4	1771.4	1740.2	1762.9	1848.1	1762.9	1703.3	1703.3	1723.2
47.5°	5919.0	4792.0	2004.2	1581.2	1507.4	1552.9	1575.6	1496.1	1450.7	1439.3	1459.2
50°	6816.1	5246.2	1890.7	1425.1	1334.3	1368.3	1354.1	1351.3	1305.9	1311.5	1322.9
52.5°	8178.7	6131.9	1856.6	1348.5	1234.9	1243.4	1229.2	1234.9	1226.4	1254.8	1263.3
55°	9663.4	7065.9	1899.2	1359.8	1166.8	1107.2	1112.8	1141.2	1175.3	1220.7	1229.2
57.5°	10773.4	7534.3	2009.9	1436.5	1081.6	990.8	1005.0	1058.9	1124.2	1161.1	1181.0
60°	11599.5	7477.5	2171.7	1456.3	979.4	885.7	911.3	990.8	1047.5	1078.8	1098.6
62.5°	11869.2	7122.7	2211.5	1311.5	846.0	786.4	848.8	931.1	956.7	990.8	1005.0
65°	11647.8	6620.2	1921.9	1064.6	743.8	712.6	803.4	865.8	899.9	916.9	919.8
66°	11386.6	6319.3	1765.8	968.0	706.9	689.8	786.4	837.5	871.5	868.7	871.5
67.5°	10813.2	5689.1	1513.1	831.8	652.9	655.8	758.0	792.0	803.4	794.9	794.9
70°	8862.9	4005.6	1084.4	630.2	573.4	613.2	681.3	689.8	715.4	704.0	704.0
72.5°	5464.8	1967.3	726.7	482.6	511.0	573.4	570.6	599.0	658.6	675.6	687.0
75°	2685.6	797.7	479.8	408.8	457.1	479.8	474.1	545.1	630.2	704.0	729.6
77.5°	1019.1	397.4	335.0	357.7	369.1	360.5	377.6	494.0	630.2	763.7	789.2
80°	315.1	275.4	264.0	295.2	278.2	264.0	283.9	408.8	533.7	579.1	579.1
82.5°	190.2	215.8	204.4	201.6	187.4	190.2	204.4	292.4	411.6	431.5	431.5
85°	133.4	141.9	116.4	110.7	107.9	105.0	105.0	170.3	244.1	241.3	249.8
87.5°	51.1	56.8	42.6	42.6	39.7	28.4	22.7	28.4	28.4	19.9	14.2
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)