

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: P1211033

Luminaire Tested: **ARCH4-150-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211033
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: ARCH4-150-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23081 lumens
Efficiency: N/A
Efficacy: 153.1 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): 150.8
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



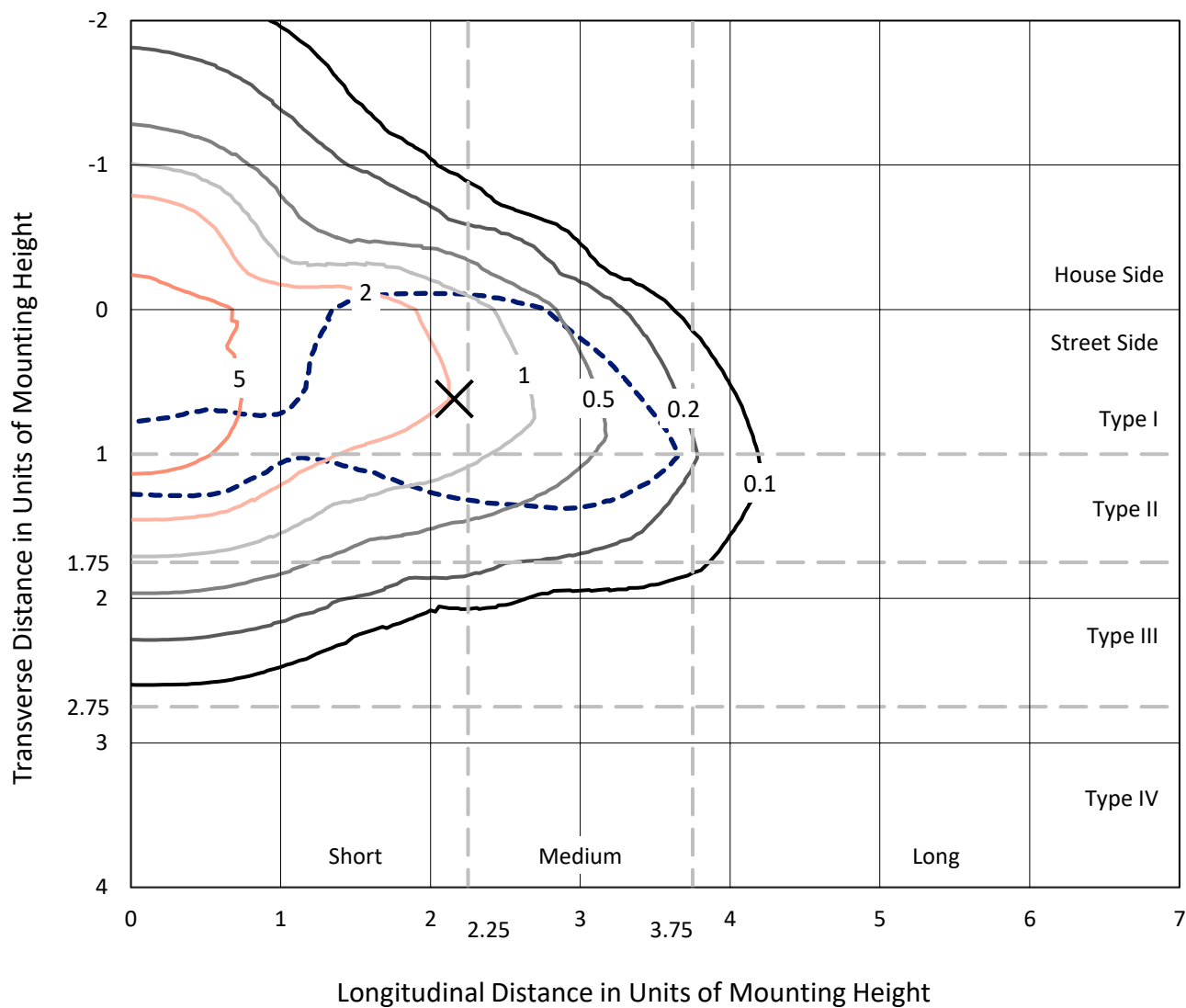
REPORT NUMBER: P1211033

CATALOG NUMBER: ARCH4-150-727-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

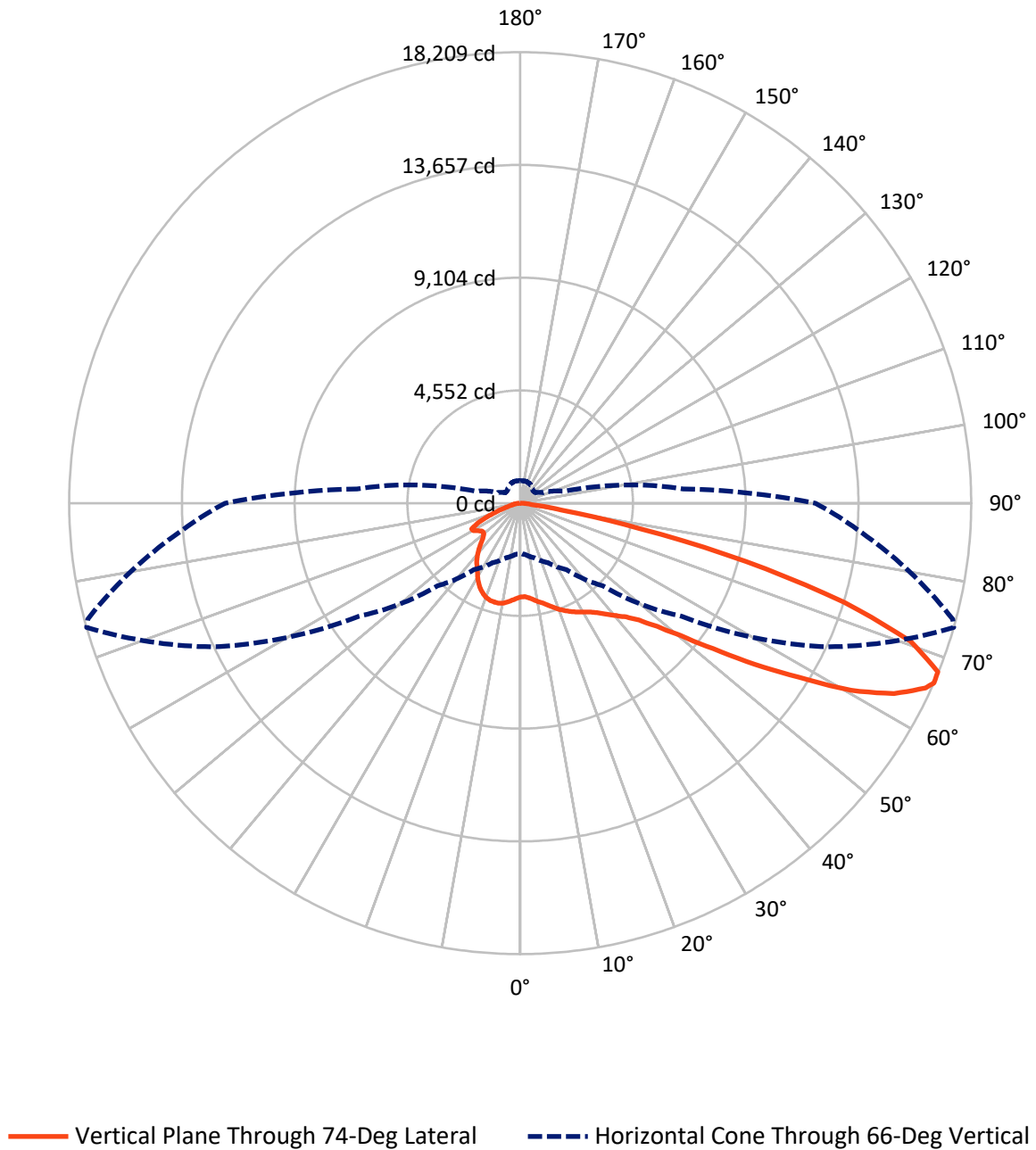
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type II - Short - N/A

REPORT NUMBER: P1211033
CATALOG NUMBER: ARCH4-150-727-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211033

CATALOG NUMBER: ARCH4-150-727-U-T2RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5620.9	0.0	5620.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	17460.2	0.0	17460.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	23081.0	0.0	23081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.6
10°-20°	1109.9	4.8
20°-30°	2082.8	9.0
30°-40°	3203.9	13.9
40°-50°	4309.5	18.7
50°-60°	5096.5	22.1
60°-70°	4714.5	20.4
70°-80°	1983.4	8.6
80°-90°	219.5	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°	23081.0	100.0
0°-180°	23081.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211033

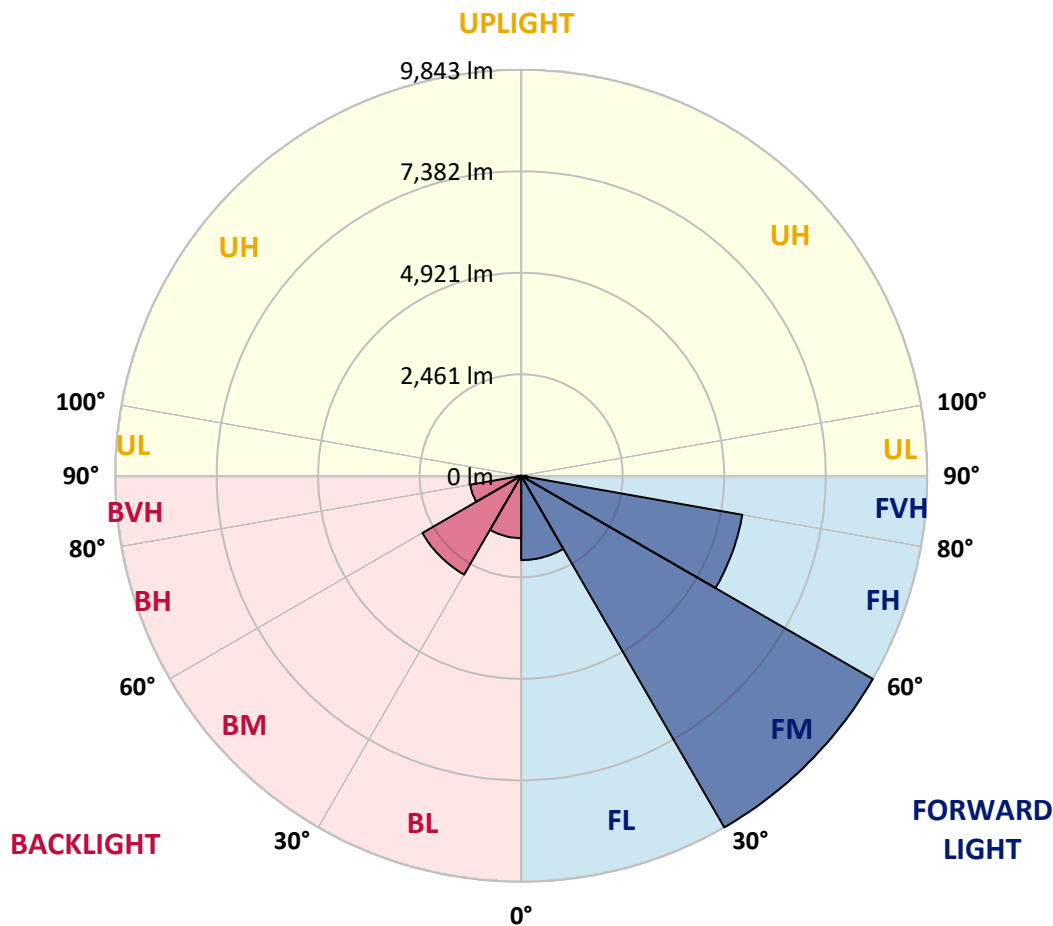
CATALOG NUMBER: ARCH4-150-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2042.9	8.9			
FM	(30°-60°)	9842.7	42.6			
FH	(60°-80°)	5443.1	23.6			G3/7500
FVH	(80°-90°)	131.3	0.6			G2/225
BL	(0°-30°)	1510.8	6.5	B3/2500		
BM	(30°-60°)	2767.2	12.0	B3/5000		
BH	(60°-80°)	1254.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	88.2	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: P1211033

CATALOG NUMBER: ARCH4-150-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7
2.5°	3771.9	3765.9	3777.8	3795.6	3804.5	3789.7	3783.7	3780.8	3780.8	3771.9	3786.7
5°	3593.7	3590.7	3617.4	3650.1	3712.5	3757.0	3816.4	3852.1	3840.2	3822.4	3834.2
7.5°	3362.0	3356.1	3388.7	3451.1	3537.2	3635.2	3780.8	3893.6	3938.2	3932.2	3929.3
10°	3451.1	3445.2	3442.2	3424.4	3454.1	3549.1	3700.6	3899.6	4051.0	4054.0	4057.0
12.5°	3760.0	3774.8	3760.0	3703.6	3638.2	3602.6	3691.7	3914.4	4146.1	4163.9	4238.1
15°	4181.7	4166.9	4137.2	4071.8	3970.9	3863.9	3798.6	3982.7	4282.7	4297.5	4460.9
17.5°	4553.0	4564.8	4547.0	4484.7	4365.9	4226.3	4027.3	4101.5	4428.2	4469.8	4698.5
20°	4956.9	5004.4	4980.6	4903.4	4805.4	4597.5	4348.0	4273.8	4588.6	4618.3	4945.0
22.5°	5423.2	5473.7	5429.1	5354.9	5274.7	5019.3	4698.5	4484.7	4722.3	4784.6	5182.6
25°	5981.5	6029.0	5987.5	5871.6	5770.7	5458.8	5075.7	4722.3	4852.9	4921.2	5375.6
27.5°	6424.0	6459.7	6498.3	6430.0	6275.5	5951.8	5467.7	4968.8	4983.6	5054.9	5553.8
30°	6819.1	6908.2	6940.8	6949.7	6819.1	6456.7	5868.7	5224.2	5096.5	5170.7	5732.0
32.5°	7359.6	7493.2	7439.8	7493.2	7416.0	6931.9	6284.5	5488.5	5242.0	5310.3	5901.3
35°	8149.6	8256.5	8116.9	8075.4	7950.6	7413.0	6685.4	5761.7	5435.0	5509.3	6061.7
37.5°	8999.0	9120.8	8918.8	8752.5	8514.9	7888.2	7029.9	6121.1	5702.3	5761.7	6210.2
40°	9741.5	9842.5	9667.3	9447.5	9049.5	8307.0	7326.9	6373.6	5969.6	6043.9	6382.5
42.5°	10427.6	10492.9	10296.9	10086.0	9554.4	8684.2	7647.7	6640.9	6281.5	6352.8	6522.1
45°	11122.5	11173.0	10899.8	10599.8	9976.1	9028.7	8001.1	7015.1	6738.9	6833.9	6747.8
47.5°	11247.3	11262.1	11214.6	11012.7	10308.8	9358.4	8437.7	7517.0	7436.8	7540.8	7136.8
50°	10383.0	10516.7	10810.7	11009.7	10442.4	9634.6	8874.3	8235.7	8399.1	8532.7	7944.7
52.5°	8705.0	8832.7	9512.8	10267.2	10121.7	9697.0	9343.5	9147.5	9756.4	9916.7	9043.6
55°	6934.9	7047.7	7766.5	8853.5	9085.1	9411.8	9845.5	10311.7	11487.8	11594.8	10249.4
57.5°	5711.3	5773.6	6287.4	7332.9	7704.1	8500.1	10115.7	11695.7	13249.0	13412.4	11297.8
60°	4683.6	4752.0	5135.1	5996.4	6489.4	7196.2	9901.9	13061.9	15351.8	15351.8	12643.2
62.5°	3525.4	3584.8	3941.2	4615.3	5444.0	6091.4	9218.8	13967.8	16937.7	16866.5	13617.3
65°	2420.5	2468.0	2726.4	3174.9	3920.4	5191.5	8286.2	13979.7	17989.1	17894.1	14033.1
66°	2031.5	2073.0	2292.8	2655.2	3281.8	4710.4	7956.6	13727.2	18208.9	18075.2	13857.9
67.5°	1603.8	1633.5	1779.0	1992.9	2405.7	3813.4	7436.8	13011.4	18188.1	18107.9	13412.4
70°	1146.4	1167.2	1274.1	1318.7	1422.6	2206.7	5907.3	11395.8	16729.8	16753.6	11660.1
72.5°	888.0	920.7	986.0	994.9	971.2	1173.1	3584.8	9506.9	13685.6	13676.7	8654.5
75°	715.8	733.6	766.3	784.1	778.1	757.3	1517.7	7092.3	9420.7	9530.6	4847.0
77.5°	564.3	561.3	591.0	614.8	632.6	594.0	695.0	4158.0	4939.1	4799.5	1820.6
80°	415.8	415.8	457.4	466.3	493.0	499.0	463.3	1603.8	1695.9	1541.4	472.2
82.5°	273.2	273.2	317.8	323.7	350.5	389.1	335.6	481.1	469.3	445.5	213.8
85°	148.5	142.6	157.4	178.2	193.0	228.7	202.0	240.6	246.5	243.5	142.6
87.5°	29.7	26.7	41.6	47.5	53.5	71.3	65.3	98.0	136.6	133.6	62.4
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: P1211033

CATALOG NUMBER: ARCH4-150-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7	3783.7
2.5°	3807.5	3804.5	3837.2	3875.8	3920.4	3947.1	3959.0	3979.8	3964.9	3970.9	3988.7
5°	3863.9	3872.8	3920.4	3970.9	3991.6	3976.8	3944.1	3932.2	3905.5	3899.6	3893.6
7.5°	3947.1	3961.9	4009.5	4021.3	3959.0	3855.0	3780.8	3739.2	3694.6	3682.8	3676.8
10°	4083.7	4092.6	4104.5	3982.7	3828.3	3688.7	3596.6	3558.0	3528.3	3504.6	3510.5
12.5°	4256.0	4250.0	4158.0	3905.5	3685.7	3543.2	3480.8	3457.0	3436.3	3421.4	3418.4
15°	4472.8	4431.2	4166.9	3798.6	3552.1	3433.3	3388.7	3379.8	3356.1	3356.1	3353.1
17.5°	4692.6	4585.6	4160.9	3685.7	3424.4	3359.0	3332.3	3326.4	3320.4	3317.5	3326.4
20°	4912.3	4722.3	4113.4	3546.1	3335.3	3296.7	3290.7	3293.7	3287.8	3296.7	3290.7
22.5°	5105.4	4811.4	4024.3	3397.6	3272.9	3269.9	3255.1	3261.0	3281.8	3284.8	3293.7
25°	5253.9	4844.0	3893.6	3261.0	3228.4	3222.4	3240.2	3264.0	3281.8	3284.8	3299.6
27.5°	5375.6	4826.2	3730.3	3154.1	3151.1	3183.8	3237.3	3246.2	3249.1	3249.1	3237.3
30°	5467.7	4787.6	3522.4	3035.3	3050.2	3130.3	3180.8	3180.8	3157.1	3151.1	3169.0
32.5°	5488.5	4737.1	3296.7	2913.5	2937.3	3032.3	3094.7	3073.9	3047.2	3047.2	3059.1
35°	5506.3	4668.8	3115.5	2747.2	2782.9	2895.7	2955.1	2913.5	2883.8	2874.9	2872.0
37.5°	5500.4	4642.1	2952.2	2536.4	2583.9	2693.8	2732.4	2693.8	2649.2	2628.4	2655.2
40°	5506.3	4624.2	2747.2	2304.7	2352.2	2417.6	2468.0	2438.3	2396.8	2343.3	2370.0
42.5°	5542.0	4648.0	2521.5	2079.0	2079.0	2114.6	2200.7	2180.0	2079.0	2058.2	2081.9
45°	5732.0	4775.7	2295.8	1853.3	1820.6	1844.4	1933.5	1844.4	1782.0	1782.0	1802.8
47.5°	6192.4	5013.3	2096.8	1654.3	1577.1	1624.6	1648.3	1565.2	1517.7	1505.8	1526.6
50°	7130.9	5488.5	1978.0	1490.9	1395.9	1431.5	1416.7	1413.7	1366.2	1372.1	1384.0
52.5°	8556.5	6415.1	1942.4	1410.7	1291.9	1300.8	1286.0	1291.9	1283.0	1312.7	1321.6
55°	10109.8	7392.3	1986.9	1422.6	1220.7	1158.3	1164.2	1193.9	1229.6	1277.1	1286.0
57.5°	11271.0	7882.3	2102.7	1502.8	1131.6	1036.5	1051.4	1107.8	1176.1	1214.7	1235.5
60°	12135.3	7822.9	2272.0	1523.6	1024.6	926.6	953.4	1036.5	1095.9	1128.6	1149.4
62.5°	12417.4	7451.7	2313.6	1372.1	885.1	822.7	888.0	974.2	1000.9	1036.5	1051.4
65°	12185.8	6926.0	2010.7	1113.7	778.1	745.5	840.5	905.8	941.5	959.3	962.3
66°	11912.6	6611.2	1847.3	1012.8	739.5	721.7	822.7	876.1	911.8	908.8	911.8
67.5°	11312.6	5951.8	1583.0	870.2	683.1	686.1	793.0	828.6	840.5	831.6	831.6
70°	9272.3	4190.6	1134.5	659.3	599.9	641.5	712.8	721.7	748.4	736.6	736.6
72.5°	5717.2	2058.2	760.3	504.9	534.6	599.9	597.0	626.7	689.0	706.9	718.7
75°	2809.6	834.6	501.9	427.7	478.2	501.9	496.0	570.2	659.3	736.6	763.3
77.5°	1066.2	415.8	350.5	374.2	386.1	377.2	395.0	516.8	659.3	798.9	825.7
80°	329.7	288.1	276.2	308.9	291.1	276.2	297.0	427.7	558.4	605.9	605.9
82.5°	199.0	225.7	213.8	210.9	196.0	199.0	213.8	305.9	430.6	451.4	451.4
85°	139.6	148.5	121.8	115.8	112.9	109.9	109.9	178.2	255.4	252.4	261.4
87.5°	53.5	59.4	44.5	44.5	41.6	29.7	23.8	29.7	29.7	20.8	14.8
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)