

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: P1211231

Luminaire Tested: **ARCH4-210-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31338 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

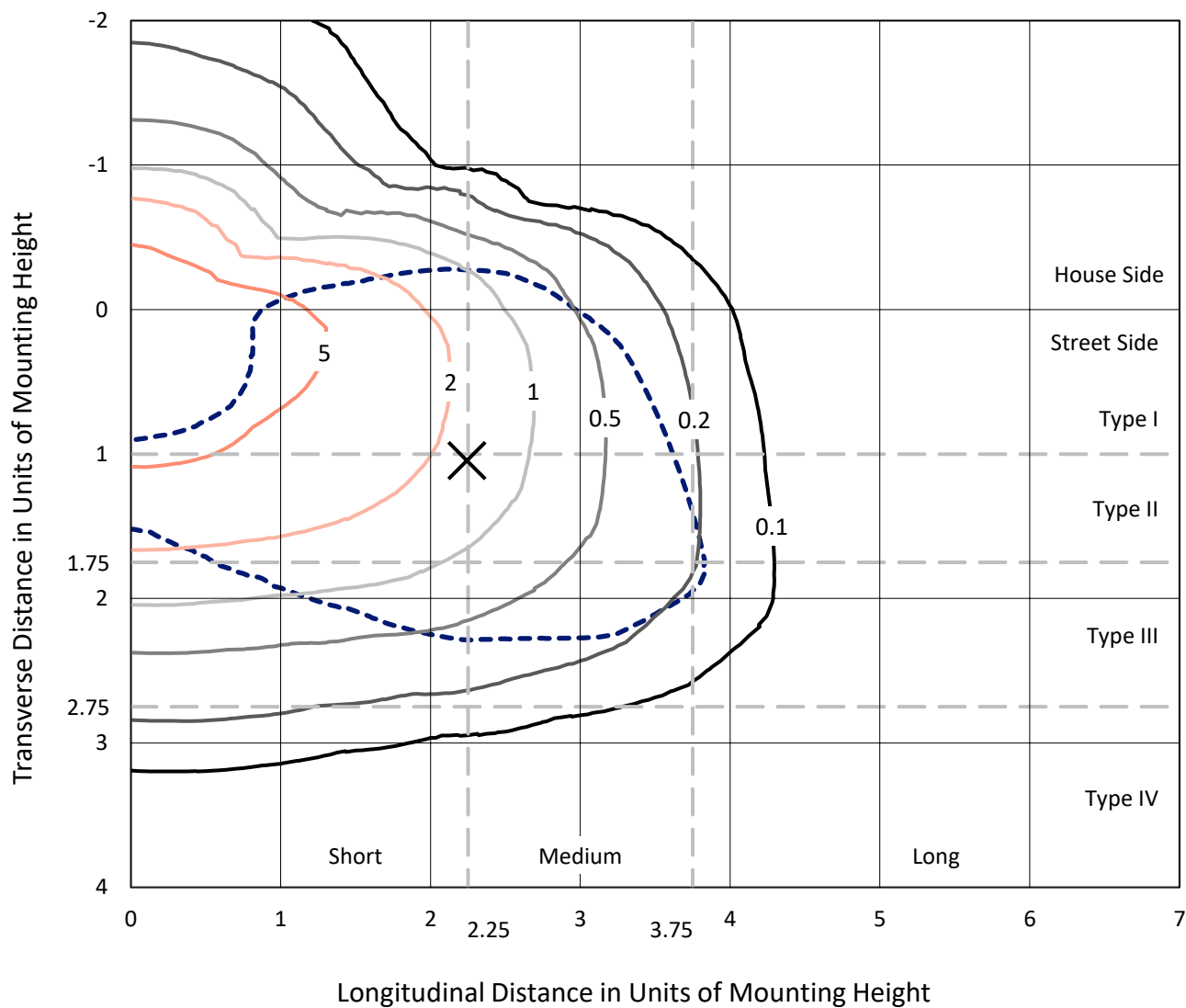
Input Watts (W): 213.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211231
 CATALOG NUMBER: ARCH4-210-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

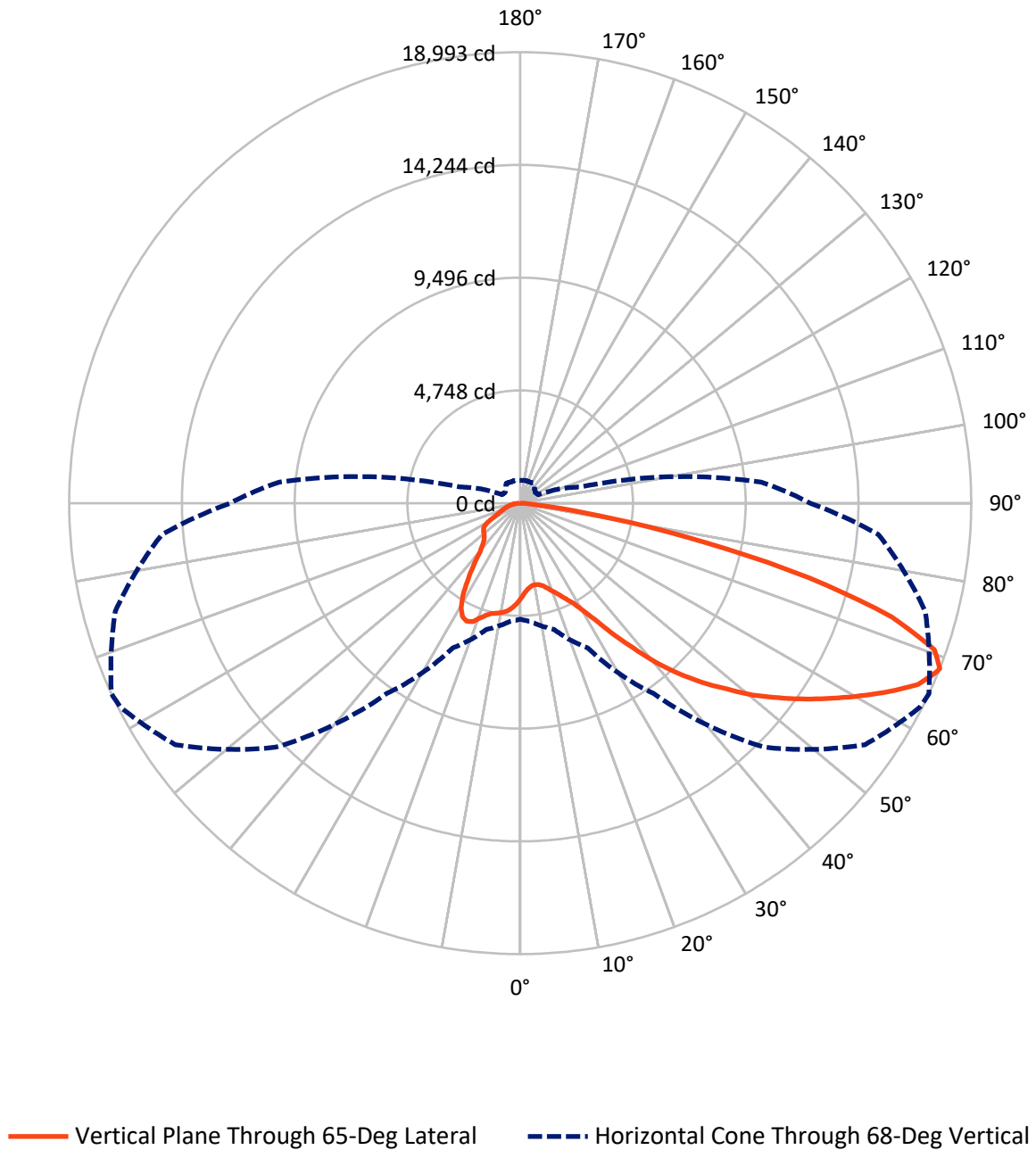
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1211231
CATALOG NUMBER: ARCH4-210-730-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211231

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7683.2	0.0	7683.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	23654.8	0.0	23654.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	31338.0	0.0	31338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	1.2
10°-20°	1246.1	4.0
20°-30°	2255.4	7.2
30°-40°	3548.0	11.3
40°-50°	5284.3	16.9
50°-60°	6932.0	22.1
60°-70°	7580.6	24.2
70°-80°	3751.1	12.0
80°-90°	357.8	1.1
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°	31338.0	100.0
0°-180°	31338.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211231

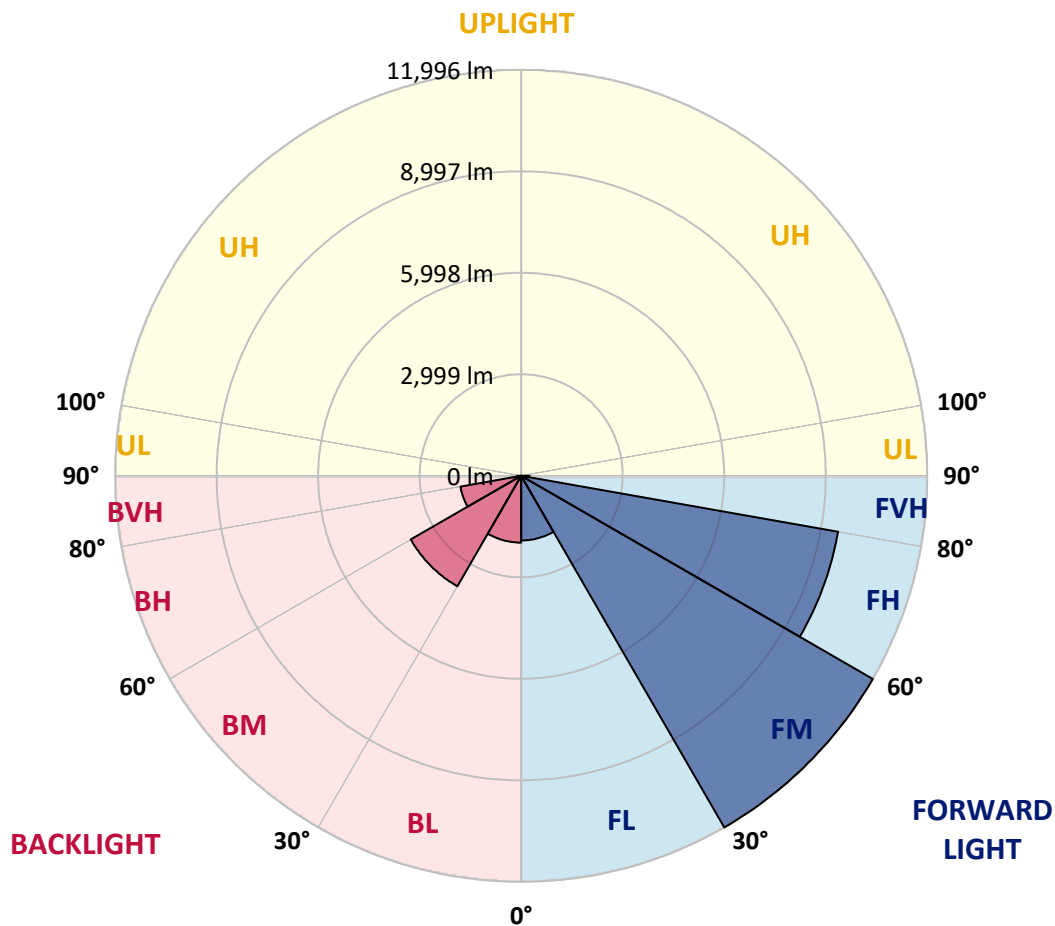
CATALOG NUMBER: ARCH4-210-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1910.4	6.1			
FM	(30°-60°)	11995.8	38.3			
FH	(60°-80°)	9508.0	30.3			G4/12000
FVH	(80°-90°)	240.7	0.8			G3/500
BL	(0°-30°)	1973.9	6.3	B3/2500		
BM	(30°-60°)	3768.5	12.0	B3/5000		
BH	(60°-80°)	1823.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	117.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P1211231

CATALOG NUMBER: ARCH4-210-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6
2.5°	3495.5	3487.4	3507.6	3527.8	3572.2	3624.8	3697.5	3758.1	3766.2	3879.3	3968.2
5°	3289.4	3277.2	3297.4	3321.7	3341.9	3406.5	3483.3	3572.2	3608.6	3774.3	3964.2
7.5°	3309.6	3305.5	3313.6	3305.5	3305.5	3333.8	3386.3	3475.2	3515.7	3713.7	3984.4
10°	3426.8	3434.8	3438.9	3414.6	3390.4	3378.3	3394.4	3455.0	3483.3	3717.7	4073.3
12.5°	3620.7	3632.8	3636.9	3592.4	3560.1	3507.6	3479.3	3503.5	3523.7	3758.1	4198.6
15°	3883.4	3891.5	3863.2	3834.9	3754.1	3689.4	3620.7	3600.5	3608.6	3843.0	4340.0
17.5°	4190.5	4178.4	4178.4	4109.7	4004.6	3903.6	3790.4	3774.3	3774.3	3980.4	4542.1
20°	4525.9	4538.0	4501.7	4408.7	4303.6	4146.0	4032.9	3960.2	3968.2	4138.0	4788.6
22.5°	5010.8	5031.0	4934.0	4800.7	4639.0	4457.2	4295.6	4178.4	4182.4	4344.1	5043.1
25°	5532.1	5540.2	5479.6	5301.8	5083.6	4824.9	4610.8	4461.2	4457.2	4574.4	5370.5
27.5°	6065.5	6101.9	5980.7	5810.9	5608.9	5285.6	5002.7	4800.7	4768.4	4926.0	5778.6
30°	6615.1	6659.5	6542.4	6376.7	6126.1	5851.3	5515.9	5281.6	5261.4	5471.5	6324.1
32.5°	7168.7	7180.8	7087.9	6950.5	6724.2	6465.6	6194.8	5936.2	5916.0	6259.5	7031.3
35°	7621.3	7657.7	7593.0	7560.7	7395.0	7156.6	6893.9	6744.4	6796.9	7237.4	7948.6
37.5°	8166.8	8203.2	8130.5	8122.4	8069.8	7863.8	7681.9	7694.0	7746.6	8344.6	8914.4
40°	8954.8	8995.2	8809.3	8728.5	8728.5	8526.5	8465.9	8752.8	8821.5	9435.7	9920.6
42.5°	9621.6	9686.2	9577.1	9524.6	9367.0	9225.6	9298.3	9702.4	9819.6	10478.3	10797.5
45°	9944.9	9993.4	10122.7	10276.2	10122.7	9876.2	10151.0	10607.6	10773.3	11440.0	11674.4
47.5°	10118.6	10163.1	10312.6	10724.8	10829.8	10623.7	11011.7	11581.5	11694.6	12393.7	12510.9
50°	10142.9	10284.3	10478.3	10890.5	11371.3	11399.6	11876.5	12571.5	12704.9	13331.2	13246.3
52.5°	9944.9	10001.4	10401.5	11096.5	11630.0	12114.9	12818.0	13521.1	13618.1	14212.1	13896.9
55°	9621.6	9702.4	10102.5	11048.1	11880.5	12793.8	13775.7	14454.6	14563.7	15068.8	14499.1
57.5°	9330.6	9371.0	9799.4	10906.6	12131.0	13472.6	14628.4	15428.5	15501.2	15820.5	14943.6
60°	9007.4	9051.8	9480.1	10603.5	12316.9	13985.8	15517.4	16410.4	16475.1	16612.5	15460.8
62.5°	8170.9	8288.1	8825.5	10102.5	12268.4	14571.8	16467.0	17380.3	17461.1	17311.6	15868.9
65°	6635.3	6801.0	7459.7	8966.9	11815.8	14951.6	17242.9	18273.3	18410.7	17836.9	15978.1
67.5°	5152.3	5269.4	5798.8	7116.2	10227.7	14761.7	17744.0	18887.6	18928.0	17752.0	15371.9
68°	4885.5	5002.7	5507.9	6728.2	9787.3	14535.4	17731.8	18903.7	18992.6	17659.1	15137.5
70°	3737.9	3871.3	4352.1	5330.1	7888.0	13096.8	16992.3	18515.8	18503.7	16535.7	13682.8
72.5°	2335.7	2412.5	2743.8	3362.1	5216.9	9965.1	14422.3	16329.6	16361.9	13480.7	10494.4
75°	1483.0	1483.0	1466.9	1628.5	2675.1	5677.6	10720.7	12571.5	12595.7	9439.7	6615.1
77.5°	1289.1	1252.7	1078.9	913.3	1066.8	2206.4	6344.3	8118.3	7985.0	5083.6	3139.8
80°	1087.0	1026.4	885.0	735.5	687.0	691.0	2436.7	4121.8	3944.0	1830.6	1042.6
82.5°	784.0	731.4	666.8	577.9	529.4	412.2	509.2	1192.1	1163.8	529.4	339.4
85°	424.3	383.9	375.8	379.9	319.2	254.6	214.2	262.7	262.7	230.3	194.0
87.5°	149.5	109.1	129.3	145.5	125.3	105.1	84.9	101.0	105.1	101.0	92.9
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: P1211231

CATALOG NUMBER: ARCH4-210-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6	4004.6
2.5°	4020.8	4061.2	4158.2	4243.0	4303.6	4356.2	4384.5	4396.6	4424.9	4428.9	4420.8
5°	4053.1	4158.2	4303.6	4428.9	4497.6	4525.9	4534.0	4538.0	4525.9	4534.0	4525.9
7.5°	4138.0	4271.3	4477.4	4586.5	4598.6	4554.2	4558.2	4542.1	4558.2	4574.4	4574.4
10°	4267.3	4437.0	4631.0	4671.4	4618.8	4594.6	4643.1	4740.1	4772.4	4816.9	4816.9
12.5°	4437.0	4639.0	4776.4	4740.1	4691.6	4772.4	4913.8	5010.8	5043.1	5059.3	5047.2
15°	4631.0	4849.2	4917.9	4796.6	4885.5	5059.3	5107.8	5051.2	4970.4	4934.0	4954.2
17.5°	4877.5	5059.3	5018.9	4938.1	5140.1	5164.4	5006.8	4824.9	4695.6	4647.1	4679.5
20°	5136.1	5293.7	5107.8	5144.2	5269.4	5010.8	4711.8	4477.4	4364.3	4344.1	4376.4
22.5°	5410.9	5511.9	5196.7	5382.6	5196.7	4671.4	4311.7	4190.5	4162.2	4194.5	4222.8
25°	5722.0	5709.9	5350.3	5455.3	4926.0	4255.2	4041.0	4032.9	4032.9	4053.1	4093.5
27.5°	6073.6	5883.7	5503.8	5358.3	4457.2	3911.7	3871.3	3875.3	3863.2	3867.2	3887.4
30°	6481.7	6118.1	5673.5	5039.1	3931.9	3653.0	3636.9	3624.8	3596.5	3588.4	3596.5
32.5°	6994.9	6364.6	5847.3	4513.8	3471.2	3386.3	3378.3	3313.6	3244.9	3236.8	3265.1
35°	7645.5	6813.1	5936.2	3855.1	3091.4	3087.3	3059.0	2958.0	2869.1	2869.1	2848.9
37.5°	8389.1	7391.0	5972.6	3212.6	2776.2	2796.4	2715.5	2586.2	2517.5	2477.1	2489.2
40°	9148.8	8049.6	5968.5	2650.9	2501.4	2505.4	2444.8	2287.2	2117.5	2016.5	2040.7
42.5°	9880.2	8647.7	5863.5	2351.9	2279.1	2267.0	2218.5	2004.3	1862.9	1782.1	1786.1
45°	10466.1	9266.0	5701.8	2174.0	2077.1	2097.3	1988.2	1858.9	1729.5	1656.8	1652.8
47.5°	11052.1	9734.7	5443.2	2064.9	1927.5	1891.2	1846.7	1757.8	1660.8	1580.0	1584.1
50°	11585.5	10134.8	5200.7	1992.2	1790.2	1697.2	1705.3	1652.8	1567.9	1495.2	1491.1
52.5°	11961.3	10397.5	5067.4	1951.8	1624.5	1523.5	1551.7	1523.5	1442.6	1390.1	1386.1
55°	12337.1	10599.5	5111.8	1899.3	1442.6	1361.8	1410.3	1402.2	1357.8	1341.6	1345.6
57.5°	12640.2	10753.1	5269.4	1802.3	1268.9	1220.4	1301.2	1277.0	1244.6	1248.7	1248.7
60°	12935.2	10951.1	5455.3	1580.0	1119.4	1123.4	1200.2	1155.7	1135.5	1171.9	1175.9
62.5°	13242.3	11165.2	5301.8	1256.7	990.0	1018.3	1107.2	1070.9	1078.9	1131.5	1147.6
65°	13205.9	11145.0	4319.8	1030.5	876.9	933.5	1066.8	1054.7	1058.7	1078.9	1087.0
67.5°	12462.4	10433.8	2970.1	876.9	796.1	864.8	1034.5	986.0	990.0	977.9	982.0
68°	12211.9	10183.3	2618.6	852.6	779.9	848.6	1018.3	973.9	977.9	965.8	961.8
70°	10846.0	8720.4	1656.8	751.6	723.3	804.2	937.5	921.3	917.3	909.2	909.2
72.5°	8267.9	6437.3	872.9	650.6	658.7	735.5	836.5	868.8	848.6	852.6	876.9
75°	5475.5	3871.3	606.1	557.7	577.9	630.4	743.5	808.2	788.0	800.1	788.0
77.5°	2897.4	2085.1	484.9	472.8	472.8	509.2	614.2	715.3	715.3	707.2	695.0
80°	949.6	735.5	387.9	371.8	379.9	400.1	493.0	585.9	598.1	581.9	573.8
82.5°	319.2	339.4	291.0	270.7	278.8	295.0	371.8	448.5	452.6	420.3	412.2
85°	198.0	226.3	181.8	177.8	177.8	181.8	226.3	246.5	226.3	202.0	210.1
87.5°	92.9	113.1	84.9	72.7	60.6	52.5	40.4	16.2	16.2	8.1	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

(END OF REPORT)