

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: P1211467

Luminaire Tested: **ARCH4-280-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211467
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: ARCH4-280-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40560 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 279.7
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

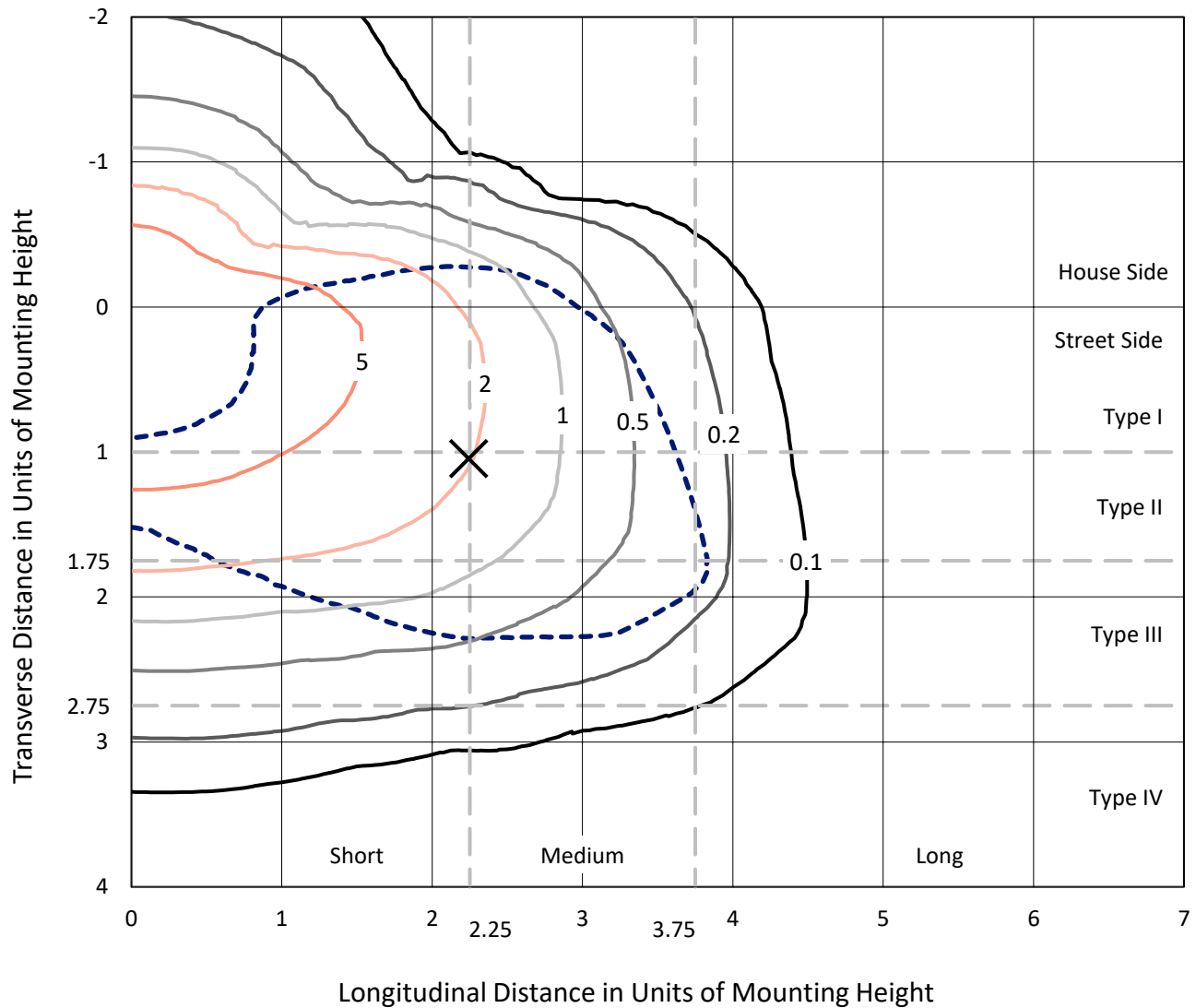


REPORT NUMBER: P1211467

CATALOG NUMBER: ARCH4-280-750-U-T3RE

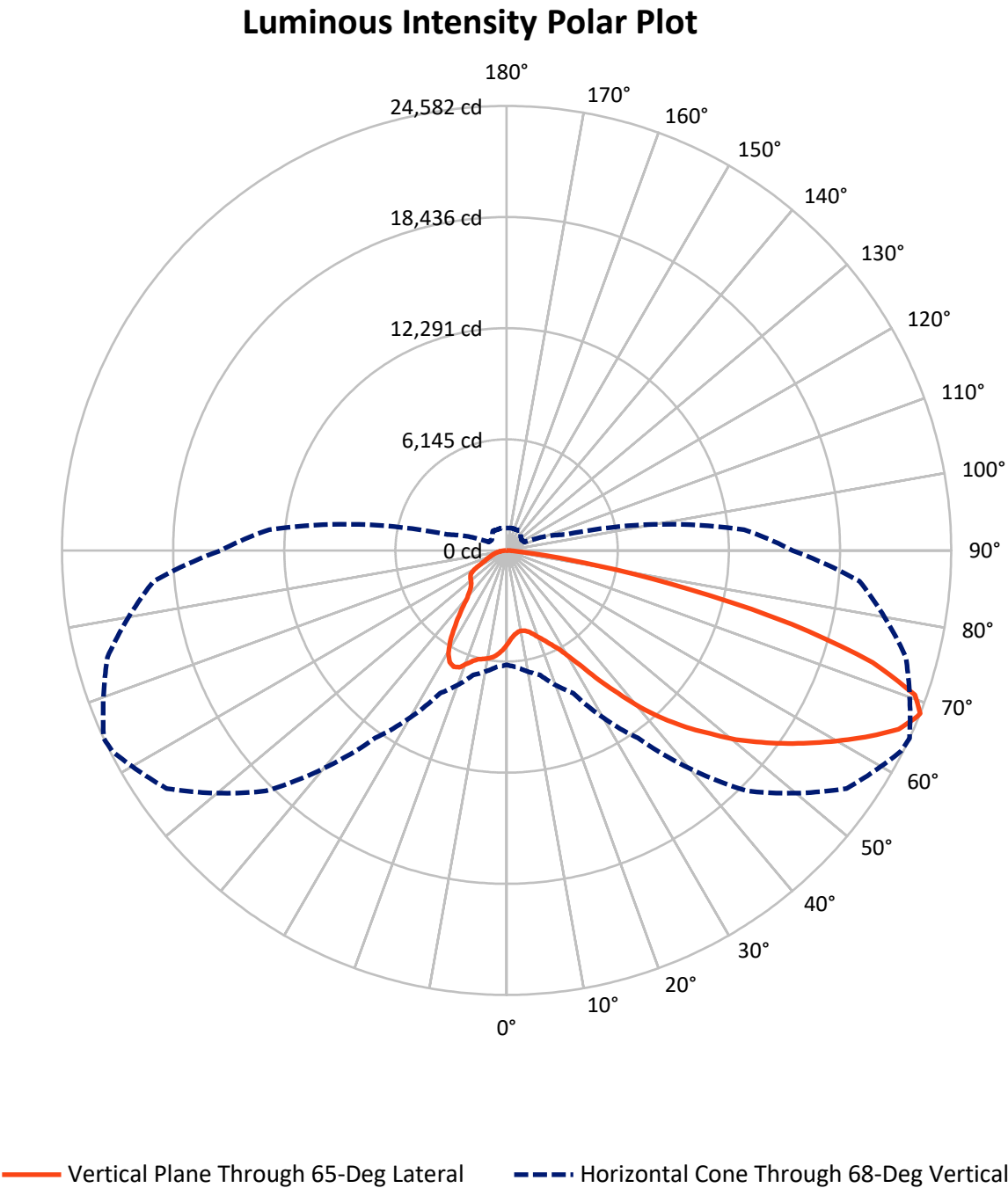
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type III - Short - N/A

REPORT NUMBER: P1211467
CATALOG NUMBER: ARCH4-280-750-U-T3RE



REPORT NUMBER: P1211467

CATALOG NUMBER: ARCH4-280-750-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9944.1	0.0	9944.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	30615.9	0.0	30615.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	40560.0	0.0	40560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.4	1.2
10°-20°	1612.8	4.0
20°-30°	2919.1	7.2
30°-40°	4592.1	11.3
40°-50°	6839.4	16.9
50°-60°	8971.9	22.1
60°-70°	9811.3	24.2
70°-80°	4854.9	12.0
80°-90°	463.1	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°	40560.0	100.0
0°-180°	40560.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211467

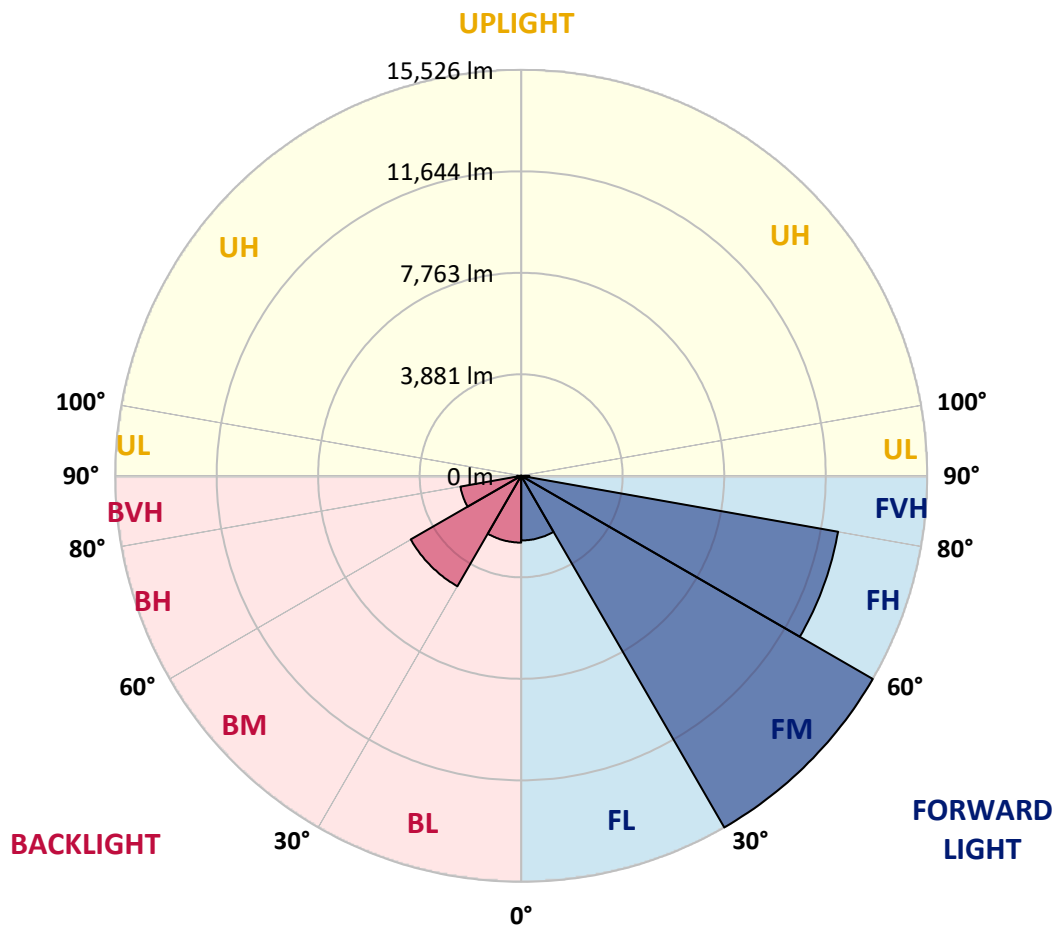
CATALOG NUMBER: ARCH4-280-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2472.6	6.1			
FM	(30°-60°)	15525.8	38.3			
FH	(60°-80°)	12306.0	30.3			G5
FVH	(80°-90°)	311.5	0.8			G3/500
BL	(0°-30°)	2554.7	6.3	B4/5000		
BM	(30°-60°)	4877.5	12.0	B3/5000		
BH	(60°-80°)	2360.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	151.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P1211467

CATALOG NUMBER: ARCH4-280-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1
2.5°	4524.1	4513.6	4539.8	4565.9	4623.4	4691.4	4785.6	4864.0	4874.5	5020.9	5136.0
5°	4257.3	4241.6	4267.8	4299.2	4325.3	4409.0	4508.4	4623.4	4670.5	4885.0	5130.8
7.5°	4283.5	4278.3	4288.7	4278.3	4278.3	4314.9	4382.9	4497.9	4550.2	4806.5	5156.9
10°	4435.2	4445.6	4450.9	4419.5	4388.1	4372.4	4393.3	4471.8	4508.4	4811.7	5272.0
12.5°	4686.2	4701.9	4707.1	4649.6	4607.8	4539.8	4503.2	4534.5	4560.7	4864.0	5434.1
15°	5026.2	5036.6	5000.0	4963.4	4858.8	4775.1	4686.2	4660.1	4670.5	4973.9	5617.2
17.5°	5423.7	5408.0	5408.0	5319.1	5183.1	5052.3	4905.9	4885.0	4885.0	5151.7	5878.7
20°	5857.8	5873.5	5826.4	5706.1	5570.1	5366.1	5219.7	5125.5	5136.0	5355.7	6197.7
22.5°	6485.4	6511.5	6386.0	6213.4	6004.2	5768.9	5559.6	5408.0	5413.2	5622.4	6527.2
25°	7160.1	7170.5	7092.1	6862.0	6579.5	6244.8	5967.6	5774.1	5768.9	5920.5	6950.9
27.5°	7850.4	7897.5	7740.6	7521.0	7259.4	6841.0	6474.9	6213.4	6171.6	6375.5	7479.1
30°	8561.7	8619.3	8467.6	8253.2	7928.9	7573.3	7139.1	6835.8	6809.7	7081.6	8185.2
32.5°	9278.3	9294.0	9173.7	8995.9	8703.0	8368.2	8017.8	7683.1	7656.9	8101.5	9100.5
35°	9864.1	9911.1	9827.4	9785.6	9571.2	9262.6	8922.6	8729.1	8797.1	9367.2	10287.7
37.5°	10570.1	10617.2	10523.1	10512.6	10444.6	10177.9	9942.5	9958.2	10026.2	10800.3	11537.7
40°	11590.0	11642.3	11401.7	11297.1	11297.1	11035.6	10957.2	11328.5	11417.4	12212.4	12840.0
42.5°	12453.0	12536.7	12395.4	12327.5	12123.5	11940.4	12034.6	12557.6	12709.3	13561.8	13975.0
45°	12871.4	12934.2	13101.5	13300.3	13101.5	12782.5	13138.1	13729.1	13943.6	14806.5	15109.9
47.5°	13096.3	13153.8	13347.3	13880.8	14016.8	13750.1	14252.1	14989.6	15136.0	16040.9	16192.5
50°	13127.7	13310.7	13561.8	14095.2	14717.6	14754.2	15371.4	16271.0	16443.6	17254.3	17144.4
52.5°	12871.4	12944.6	13462.4	14362.0	15052.4	15680.0	16590.0	17500.1	17625.6	18394.4	17986.5
55°	12453.0	12557.6	13075.4	14299.2	15376.6	16558.6	17829.6	18708.2	18849.4	19503.2	18765.8
57.5°	12076.4	12128.7	12683.1	14116.2	15700.9	17437.3	18933.1	19968.7	20062.8	20476.0	19341.1
60°	11658.0	11715.5	12269.9	13723.9	15941.5	18101.5	20083.8	21239.6	21323.3	21501.1	20010.5
62.5°	10575.4	10727.0	11422.6	13075.4	15878.7	18859.9	21312.8	22494.9	22599.5	22405.9	20538.8
65°	8587.9	8802.3	9654.8	11605.7	15292.9	19351.5	22317.0	23650.7	23828.5	23085.9	20680.0
67.5°	6668.4	6820.1	7505.3	9210.3	13237.5	19105.7	22965.6	24445.7	24498.0	22976.0	19895.5
68°	6323.2	6474.9	7128.7	8708.2	12667.4	18812.8	22949.9	24466.6	24581.7	22855.7	19592.1
70°	4837.9	5010.5	5632.9	6898.6	10209.2	16950.9	21992.8	23964.5	23948.8	21401.8	17709.3
72.5°	3023.0	3122.4	3551.3	4351.5	6752.1	12897.5	18666.4	21135.0	21176.9	17447.8	13582.7
75°	1919.5	1919.5	1898.5	2107.7	3462.4	7348.4	13875.6	16271.0	16302.4	12217.6	8561.7
77.5°	1668.4	1621.3	1396.4	1182.0	1380.8	2855.7	8211.3	10507.4	10334.8	6579.5	4063.8
80°	1406.9	1328.5	1145.4	951.9	889.1	894.4	3153.8	5334.7	5104.6	2369.3	1349.4
82.5°	1014.6	946.7	863.0	747.9	685.1	533.5	659.0	1542.9	1506.3	685.1	439.3
85°	549.2	496.9	486.4	491.6	413.2	329.5	277.2	340.0	340.0	298.1	251.0
87.5°	193.5	141.2	167.4	188.3	162.1	136.0	109.8	130.8	136.0	130.8	120.3
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: P1211467

CATALOG NUMBER: ARCH4-280-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1	5183.1
2.5°	5204.0	5256.3	5381.8	5491.7	5570.1	5638.1	5674.7	5690.4	5727.0	5732.2	5721.8
5°	5245.8	5381.8	5570.1	5732.2	5821.2	5857.8	5868.2	5873.5	5857.8	5868.2	5857.8
7.5°	5355.7	5528.3	5795.0	5936.2	5951.9	5894.4	5899.6	5878.7	5899.6	5920.5	5920.5
10°	5523.0	5742.7	5993.7	6046.0	5978.1	5946.7	6009.4	6135.0	6176.8	6234.3	6234.3
12.5°	5742.7	6004.2	6182.0	6135.0	6072.2	6176.8	6359.9	6485.4	6527.2	6548.1	6532.5
15°	5993.7	6276.2	6365.1	6208.2	6323.2	6548.1	6610.9	6537.7	6433.1	6386.0	6412.2
17.5°	6312.8	6548.1	6495.8	6391.2	6652.7	6684.1	6480.2	6244.8	6077.4	6014.7	6056.5
20°	6647.5	6851.5	6610.9	6658.0	6820.1	6485.4	6098.4	5795.0	5648.6	5622.4	5664.2
22.5°	7003.2	7133.9	6726.0	6966.6	6726.0	6046.0	5580.6	5423.7	5387.1	5428.9	5465.5
25°	7405.9	7390.2	6924.7	7060.7	6375.5	5507.3	5230.1	5219.7	5219.7	5245.8	5298.1
27.5°	7860.9	7615.1	7123.5	6935.2	5768.9	5062.8	5010.5	5015.7	5000.0	5005.2	5031.4
30°	8389.2	7918.4	7343.1	6522.0	5088.9	4728.1	4707.1	4691.4	4654.8	4644.4	4654.8
32.5°	9053.4	8237.5	7568.0	5842.1	4492.7	4382.9	4372.4	4288.7	4199.8	4189.3	4226.0
35°	9895.4	8818.0	7683.1	4989.6	4001.1	3995.8	3959.2	3828.5	3713.4	3713.4	3687.3
37.5°	10857.8	9565.9	7730.2	4158.0	3593.1	3619.3	3514.7	3347.3	3258.4	3206.1	3221.8
40°	11841.1	10418.5	7724.9	3431.0	3237.5	3242.7	3164.2	2960.3	2740.6	2609.8	2641.2
42.5°	12787.7	11192.5	7588.9	3043.9	2949.8	2934.1	2871.4	2594.2	2411.1	2306.5	2311.7
45°	13546.1	11992.7	7379.7	2813.8	2688.3	2714.4	2573.2	2405.9	2238.5	2144.4	2139.1
47.5°	14304.4	12599.4	7045.0	2672.6	2494.8	2447.7	2390.2	2275.1	2149.6	2045.0	2050.2
50°	14994.8	13117.2	6731.2	2578.5	2317.0	2196.7	2207.1	2139.1	2029.3	1935.2	1929.9
52.5°	15481.2	13457.2	6558.6	2526.2	2102.5	1971.8	2008.4	1971.8	1867.2	1799.2	1793.9
55°	15967.6	13718.7	6616.1	2458.2	1867.2	1762.6	1825.3	1814.9	1757.3	1736.4	1741.6
57.5°	16359.9	13917.4	6820.1	2332.6	1642.3	1579.5	1684.1	1652.7	1610.9	1616.1	1616.1
60°	16741.7	14173.7	7060.7	2045.0	1448.8	1454.0	1553.4	1495.8	1469.7	1516.7	1522.0
62.5°	17139.2	14450.9	6862.0	1626.6	1281.4	1318.0	1433.1	1386.0	1396.4	1464.4	1485.4
65°	17092.1	14424.7	5591.0	1333.7	1134.9	1208.2	1380.8	1365.1	1370.3	1396.4	1406.9
67.5°	16129.8	13504.2	3844.2	1134.9	1030.3	1119.3	1338.9	1276.2	1281.4	1265.7	1270.9
68°	15805.5	13180.0	3389.1	1103.6	1009.4	1098.3	1318.0	1260.5	1265.7	1250.0	1244.8
70°	14037.7	11286.7	2144.4	972.8	936.2	1040.8	1213.4	1192.5	1187.2	1176.8	1176.8
72.5°	10700.9	8331.6	1129.7	842.1	852.5	951.9	1082.6	1124.5	1098.3	1103.6	1134.9
75°	7086.8	5010.5	784.5	721.8	747.9	815.9	962.3	1046.0	1019.9	1035.6	1019.9
77.5°	3750.0	2698.8	627.6	611.9	611.9	659.0	795.0	925.7	925.7	915.3	899.6
80°	1229.1	951.9	502.1	481.2	491.6	517.8	638.1	758.4	774.1	753.1	742.7
82.5°	413.2	439.3	376.6	350.4	360.9	381.8	481.2	580.5	585.8	543.9	533.5
85°	256.3	292.9	235.4	230.1	230.1	235.4	292.9	319.0	292.9	261.5	272.0
87.5°	120.3	146.4	109.8	94.1	78.5	68.0	52.3	20.9	20.9	10.5	10.5
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)